



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 16047

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

Elevation 2138 B.L. Formation Oread Eff. Pay _____ Ft.

District 14 Wakeeney Date 5-15-90 Customer Order No. _____
COMPANY NAME Honey Oil Co. Inc.
ADDRESS 401 EAST Douglas - Suite 505 - Wichita, KS. 67201
LEASE AND WELL NO. Napue #1 COUNTY Graham STATE KS Sec. 11 Twp. 7S Rge. 21W
Mail Invoice To Duke Drilling Co. Co. Name Address Napue #1 No. Copies Requested Reg
Mail Charts To Honey Oil Address Napue #1 No. Copies Requested Reg

Formation Test No. 1 Interval Tested From 3290 ft. to 3350 ft. Total Depth 3350 ft.
Packer Depth 3285 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3290 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3308 ft. Recorder Number 11018 Cap. 4425
Bottom Recorder Depth (Outside) 3318 ft. Recorder Number 13629 Cap. 4425
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____
Drilling Contractor Duke #4 Drill Collar Length 150 I. D. 2.2 in.
Mud Type Chem. Viscosity 47 Weight Pipe Length _____ I. D. _____ in.
Weight 9.0 Water Loss 11 cc. Drill Pipe Length 3120 I. D. 3.8 in.
Chlorides 2,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
Jars: Make _____ Serial Number _____ Anchor Length 60 ft. Size 5 1/2 OD in.
Did Well Flow? NO Reversed Out NO Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.
Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 in.

Blow: Strong - Bottom of Bucket 3 min. F.F.P.
Strong - Bottom of Bucket 5 min. F.F.P.
Recovered 840 ft. of Muddy Water w/ FW oil spks
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Chlorides 37,000 P.P.M. Sample Jars used 1 Remarks: _____

Time On Location 6:00 A.M. Time Pick Up Tool 10:00 A.M. Time Off Location 5:00 A.M.
Time Set Packer(s) 11:40 A.M. Time Started Off Bottom 11:55 A.M. Maximum Temperature 109
Initial Hydrostatic Pressure (A) 1614 P.S.I.
Initial Flow Period _____ Minutes (B) 77 P.S.I. to (C) 200 P.S.I.
Initial Closed In Period _____ Minutes (D) 920 P.S.I.
Final Flow Period _____ Minutes (E) 255 P.S.I. to (F) 355 P.S.I.
Final Closed In Period _____ Minutes (G) 920 P.S.I.
Final Hydrostatic Pressure (H) 1603 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 _____ 1950

Thank you

FIELD INVOICE

Open Hole Test \$ 400
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

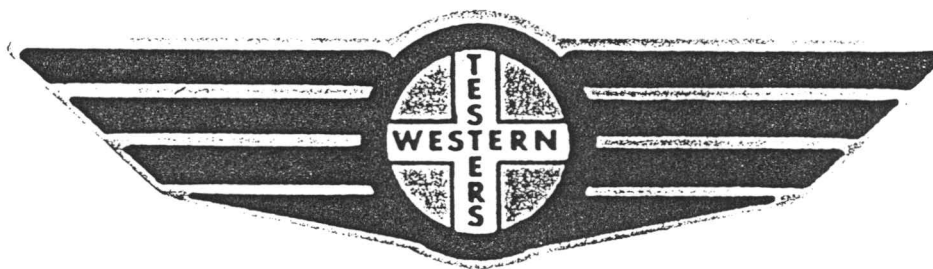
Date 5-15-50 Test Ticket No. 16047
Recorder No. 11018 Capacity 4425 Location _____ Ft.
Clock No. _____ Elevation _____ Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1651</u>	P.S.I.	<u>11:40 P</u>	M
B First Initial Flow Pressure	<u>92</u>	P.S.I.	<u>5</u>	Mins. <u>15</u> Mins.
C First Final Flow Pressure	<u>220</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
D Initial Closed-in Pressure	<u>942</u>	P.S.I.	<u>15</u>	Mins. <u>15</u> Mins.
E Second Initial Flow Pressure	<u>271</u>	P.S.I.	<u>60</u>	Mins. <u>60</u> Mins.
F Second Final Flow Pressure	<u>371</u>	P.S.I.		
G Final Closed-in Pressure	<u>939</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1624</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>92</u>	0	<u>220</u>	0	<u>271</u>	0	<u>371</u>
P 2 5	<u>121</u>	3	<u>891</u>	5	<u>277</u>	3	<u>902</u>
P 3 10	<u>166</u>	6	<u>914</u>	10	<u>312</u>	6	<u>917</u>
P 4 15	<u>220</u>	9	<u>926</u>	15	<u>371</u>	9	<u>924</u>
P 5 20		12	<u>930</u>	20		12	<u>927</u>
P 6 25		15	<u>934</u>	25		15	<u>929</u>
P 7 30		18	<u>936</u>	30		18	<u>931</u>
P 8 35		21	<u>938</u>	35		21	<u>932</u>
P 9 40		24	<u>940</u>	40		24	<u>933</u>
P10 45		27	<u>941</u>	45		27	<u>934</u>
P11 50		30	<u>942</u>	50		30	<u>935</u>
P12 55		33		55		33	<u>936</u>
P13 60		36		60		36	<u>937</u>
P14 65		39		65		39	<u>938</u>
P15 70		42		70		42	<u>939</u>
P16 75		45	<u>942</u>	75		45	<u>939</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	<u>939</u>

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	5-15-90	TICKET	:	16047
CUSTOMER	:	HONEY OIL COMPANY INC.	LEASE	:	NAPUE
WELL	:	#1	TEST:	:	1
ELEVATION	:	2138 GL	GEOLOGIST	:	BAKER
SECTION	:	11	FORMATION	:	O'READ
RANGE	:	21W	COUNTY	:	GRAHAM
GAUGE SN#	:	11018	RANGE	:	4425
			STATE	:	KANSAS
			CLOCK	:	12

INTERVAL FROM	:	3290	TO	:	3350	TOTAL DEPTH	:	3350
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3285	SIZE	:	6.75			
PACKER DEPTH	:	3290	SIZE	:	6.75			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	DUKE #4			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	42
WEIGHT	:	9.0	WATER LOSS (CC)	:	11.0
CHLORIDES (PPM)	:	2000			
JARS-MAKE	:		SERIAL NUMBER	:	
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	150	FT	I.D. inch	:	2.20
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3120	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	60	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 STRONG BLOW.
BLOW COMMENT #2 : BOTTOM OF BUCKET IN 3 MINUTES.
BLOW COMMENT #3 : FINAL FLOW PERIOD STRONG BLOW.
BLOW COMMENT #4 : BOTTOM OF BUCKET IN 5 MINUTES.

RECOVERED : 840 FT OF: MUDDY WATER W/ FEW OIL SPKS.
RECOVERED : 0 FT OF: CHLORIDES 37000 P.P.M.

Total Barrels Fluid = 10.38
Total Fluid Prod Rate = 498.40 BFPD
Indicated Wtr Rate = 249.20 BWPD

REMARK 1 :
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 11:40 P.M.

TIME STARTED OFF BOTTOM : 1:55 A.M.

WELL TEMPERATURE : 109

INITIAL HYDROSTATIC PRESSURE

(A) 1631

INITIAL FLOW PERIOD MIN: 15

(B) 92 PSI TO (C) : 220

INITIAL CLOSED IN PERIOD MIN: 45

(D) 942

FINAL FLOW PERIOD MIN: 15

(E) 271 PSI TO (F) : 371

FINAL CLOSED IN PERIOD MIN: 60

(G) 939

FINAL HYDROSTATIC PRESSURE

(H) 1626

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HONEY OIL COMPANY INC.
RIG : GRAHAM-KANSAS
FIELD : NAPUE
WELL : #1
DATE : 5-15-90
GAUGE NO : 11018

OPERATIONAL COMMENTS

COMPANY : HONEY OIL COMPANY INC.
WELL : #1
GAUGE # : 11018
DATE : 15/ 5/90

FIELD : NAPUE
JOB # : 16047
DEPTH : 3350
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	11:40: 0	0.000	92.000	109.00	0.000
3	11:44:59	0.083	121.000	109.00	29.000
4	11:50: 0	0.167	166.000	109.00	45.000
5	11:55: 0	0.250	220.000	109.00	54.000
INITIAL SHUT-IN PERIOD					
6	11:58: 0	0.300	891.000	109.00	671.000
7	12: 1: 0	0.350	914.000	109.00	23.000
8	12: 4: 0	0.400	926.000	109.00	12.000
9	12: 7: 0	0.450	930.000	109.00	4.000
10	12:10: 0	0.500	934.000	109.00	4.000
11	12:13: 0	0.550	936.000	109.00	2.000
12	12:16: 0	0.600	938.000	109.00	2.000
13	12:19: 0	0.650	940.000	109.00	2.000
14	12:22: 0	0.700	941.000	109.00	1.000
15	12:25: 0	0.750	942.000	109.00	1.000
16	12:28: 0	0.800	942.000	109.00	0.000
17	12:31: 0	0.850	942.000	109.00	0.000
18	12:34: 0	0.900	942.000	109.00	0.000
19	12:37: 0	0.950	942.000	109.00	0.000
20	12:40: 0	1.000	942.000	109.00	0.000
FINAL FLOW PERIOD					
21	12:41: 0	1.017	271.000	109.00	-671.000
22	12:44:59	1.083	277.000	109.00	6.000
23	12:50: 0	1.167	313.000	109.00	36.000
24	12:55: 0	1.250	371.000	109.00	58.000
FINAL SHUT-IN PERIOD					
25	12:58: 0	1.300	903.000	109.00	532.000
26	13: 1: 0	1.350	917.000	109.00	14.000
27	13: 4: 0	1.400	924.000	109.00	7.000
28	13: 7: 0	1.450	927.000	109.00	3.000
29	13:10: 0	1.500	929.000	109.00	2.000
30	13:13: 0	1.550	931.000	109.00	2.000
31	13:16: 0	1.600	932.000	109.00	1.000
32	13:19: 0	1.650	933.000	109.00	1.000
33	13:22: 0	1.700	934.000	109.00	1.000
34	13:25: 0	1.750	935.000	109.00	1.000
35	13:28: 0	1.800	936.000	109.00	1.000
36	13:31: 0	1.850	937.000	109.00	1.000
37	13:34: 0	1.900	938.000	109.00	1.000
38	13:37: 0	1.950	939.000	109.00	1.000
39	13:40: 0	2.000	939.000	109.00	0.000
40	13:43: 0	2.050	939.000	109.00	0.000
41	13:46: 0	2.100	939.000	109.00	0.000
42	13:49: 0	2.150	939.000	109.00	0.000
43	13:52: 0	2.200	939.000	109.00	0.000
44	13:55: 0	2.250	939.000	109.00	0.000

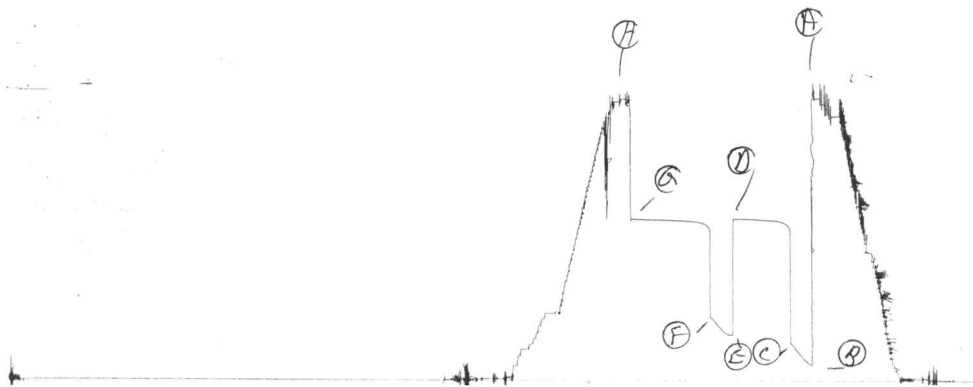
WESTERN TESTING CO. INC.

11018.

KT 16042.

Honey
DSTI

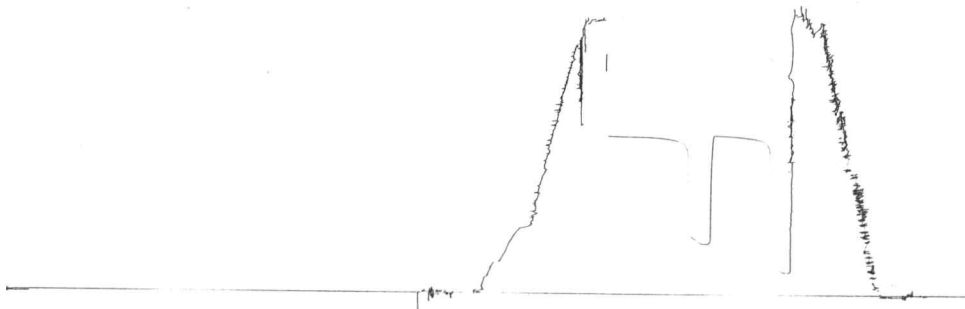
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13457

Lat. 16042

HOHEy
DST1





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 16048

P. O. BOX 1599 PHONE (316) 262-5861

Elevation 2138 GL Formation LANSE Eff. Pay Ft.

WICHITA, KANSAS 67201

District 14 WAKEENAY Date 5-16-90 Customer Order No.

COMPANY NAME H175 Honey Oil Co. INC.

ADDRESS 401 EAST DOUGLAS-Suite 505-Wichita, Ks. 67201

LEASE AND WELL NO. NAPUE #1 COUNTY Graham STATE Ks Sec. 11 Twp. 7S Rge. 21W

Mail Invoice To DoB7 Duke Drilling Co. Name Honey Oil Address NAPUE #1 No. Copies Requested Ry

Mail Charts To Honey Oil Address NAPUE #1 No. Copies Requested Ry

Formation Test No. 7 Interval Tested From 3374 ft. to 3393 ft. Total Depth 3393 ft.

Packer Depth 3369 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3374 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3382 ft. Recorder Number 11018 / 3629 Cap. 4425

Bottom Recorder Depth (Outside) 3385 ft. Recorder Number 3629 Cap. 4425

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Duke #4 Drill Collar Length 150 I. D. 2.2 in.

Mud Type Chem Viscosity 38 Weight Pipe Length I. D. in.

Weight 9.2 Water Loss 9.8 cc. Drill Pipe Length 3204 I. D. 3.8 in.

Chlorides 2,700 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 19 ft. Size 5 1/2 in.

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

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

Blow: Strong - Bottom of Bucket 20 min. I.F.P.

Strong - Bottom of Bucket 10" in Bucket F.F.P.

Recovered 30 ft. of Clear Oil 37 Gravity Corrected

Recovered 30 ft. of H.O.C.M. 40 oil - 60 mud

Recovered 30 ft. of O.C.M. 10 oil - 85 mud - 5 Gas

Recovered 30 ft. of O.C.M. 10 oil - 90 mud

Recovered ft. of

Chlorides P.P.M. Sample Jars used 3 Remarks: 66.0 Oil

14.1 W

Time On Location 11:30 A.M. Time Pick Up Tool 12:00 A.M. Time Off Location 7:00 A.M.

Time Set Packer(s) 1:25 P.M. Time Started Off Bottom 4:10 A.M. Maximum Temperature 110

Initial Hydrostatic Pressure (A) 1658 P.S.I.

Initial Flow Period 30 Minutes (B) 88 P.S.I. to (C) 88 P.S.I.

Initial Closed In Period 45 Minutes (D) 1140 P.S.I.

Final Flow Period 30 Minutes (E) 111 P.S.I. to (F) 111 P.S.I.

Final Closed In Period 60 Minutes (G) 1140 P.S.I.

Final Hydrostatic Pressure (H) 1647 P.S.I.

COMPANY TERMS

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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 David Sloan 1950

Thank you

FIELD INVOICE

Open Hole Test \$ 400
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

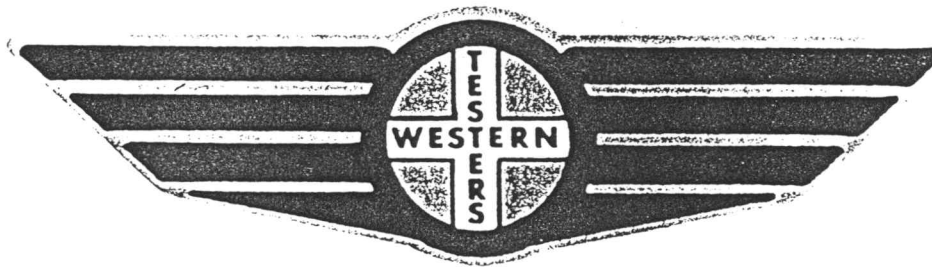
Date 5-16 90 Test Ticket No. 16048
Recorder No. 11018 Capacity 4425 Location _____ Ft.
Clock No. _____ Elevation _____ Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1681</u> P.S.I.	Open Tool	<u>1:25</u> P	M
B First Initial Flow Pressure	<u>117</u> P.S.I.	First Flow Pressure	<u>25</u> Mins.	<u>25</u> Mins.
C First Final Flow Pressure	<u>117</u> P.S.I.	Initial Closed-in Pressure	<u>42</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>1160</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>129</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>129</u> P.S.I.			
G Final Closed-in Pressure	<u>1156</u> P.S.I.			
H Final Hydrostatic Mud	<u>1681</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>117</u>	0	<u>117</u>	0	<u>129</u>	0	<u>129</u>
P 2 5		3	<u>644</u>	5		3	<u>657</u>
P 3 10		6	<u>894</u>	10		6	<u>864</u>
P 4 15		9	<u>986</u>	15		9	<u>948</u>
P 5 20		12	<u>1032</u>	20		12	<u>992</u>
P 6 25		15	<u>1061</u>	25		15	<u>1022</u>
P 7 30		18	<u>1083</u>	30	<u>129</u>	18	<u>1047</u>
P 8 35	<u>117</u>	21	<u>1103</u>	35		21	<u>1065</u>
P 9 40		24	<u>1112</u>	40		24	<u>1079</u>
P10 45		27	<u>1123</u>	45		27	<u>1093</u>
P11 50		30	<u>1132</u>	50		30	<u>1105</u>
P12 55		33	<u>1142</u>	55		33	<u>1111</u>
P13 60		36	<u>1150</u>	60		36	<u>1119</u>
P14 65		39	<u>1156</u>	65		39	<u>1126</u>
P15 70		42	<u>1160</u>	70		42	<u>1132</u>
P16 75		45		75		45	<u>1137</u>
P17 80		48		80		48	<u>1142</u>
P18 85		51		85		51	<u>1147</u>
P19 90		54		90		54	<u>1152</u>
P20 95		57		95		57	<u>1154</u>
100		60		100		60	<u>1156</u>

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	5-16-90	TICKET	:	16048
CUSTOMER	:	HONEY OIL COMPANY INC.	LEASE	:	NAPUE
WELL	:	#1	TEST:	:	2
ELEVATION	:	2138 GL	GEOLOGIST	:	BAKER
SECTION	:	11	FORMATION	:	LANSING
RANGE	:	21W	COUNTY :	:	GRAHAM
GAUGE SN#	:	11018	RANGE :	:	4425
			STATE	:	KANSAS
			CLOCK	:	12

INTERVAL FROM	:	3374	TO	:	3393	TOTAL DEPTH	:	3393
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3369	SIZE	:	6.75			
PACKER DEPTH	:	3374	SIZE	:	6.75			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	DUKE #4			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	38
WEIGHT	:	9.2	WATER LOSS (CC)	:	9.8
CHLORIDES (PPM)	:	2700			
JARS-MAKE	:		SERIAL NUMBER	:	
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	150	FT	I.D. inch	:	2.20
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3204	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	19	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 STRONG BLOW.
BLOW COMMENT #2 : BOTTOM OF BUCKET IN 20 MINUTES.
BLOW COMMENT #3 : FINAL FLOW PERIOD STRONG BLOW.
BLOW COMMENT #4 : 10 INCHES IN BUCKET.

RECOVERED	:	30	FT	OF: CLEAN OIL GRAVITY CORRECTED 37
RECOVERED	:	60	FT	OF: HEAVY OIL-CUT MUD
RECOVERED	:	0	FT	OF: 40%OIL 60%MUD
RECOVERED	:	60	FT	OF: OIL-CUT MUD
RECOVERED	:	0	FT	OF: 10%OIL 85%MUD 5%GAS
RECOVERED	:	60	FT	OF: OIL-CUT MUD
RECOVERED	:	0	FT	OF: 10%OIL 90%MUD

Total Barrels Fluid	=	1.55
Total Fluid Prod Rate	=	34.27 BFPD
Indicated Oil Rate	=	10.77 BOPD
Indicated Wtr Rate	=	2.30 BWPD
Corrected Oil Rate	=	5.39 BOPD
Corrected Wtr Rate	=	1.15 BWPD

REMARK 1 :
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 1:25 P.M.

TIME STARTED OFF BOTTOM : 4:10 P.M.

WELL TEMPERATURE : 110

INITIAL HYDROSTATIC PRESSURE

(A) 1681

INITIAL FLOW PERIOD MIN: 35

(B) 117 PSI TO (C) : 117

INITIAL CLOSED IN PERIOD MIN: 42

(D) 1160

FINAL FLOW PERIOD MIN: 30

(E) 129 PSI TO (F) : 129

FINAL CLOSED IN PERIOD MIN: 60

(G) 1156

FINAL HYDROSTATIC PRESSURE

(H) 1681

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HONEY OIL COMPANY INC.
RIG : GRAHAM-KANSAS
FIELD : NAPUE
WELL : #1
DATE : 5-16-90
GAUGE NO : 11018

OPERATIONAL COMMENTS

COMPANY : HONEY OIL COMPANY INC.
WELL : #1
GAUGE # : 11018
DATE : 16/ 5/90

FIELD : NAPUE
JOB # : 16048
DEPTH : 3393
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	1:25: 0	0.000	117.000	110.00	0.000
3	1:29:59	0.083	117.000	110.00	0.000
4	1:35: 0	0.167	117.000	110.00	0.000
5	1:40: 0	0.250	117.000	110.00	0.000
6	1:44:59	0.333	117.000	110.00	0.000
7	1:50: 0	0.417	117.000	110.00	0.000
8	1:55: 0	0.500	117.000	110.00	0.000
9	1:59:59	0.583	117.000	110.00	0.000
INITIAL SHUT-IN PERIOD					
10	2: 2:59	0.633	644.000	110.00	527.000
11	2: 5:59	0.683	894.000	110.00	250.000
12	2: 8:59	0.733	986.000	110.00	92.000
13	2:11:59	0.783	1032.000	110.00	46.000
14	2:14:59	0.833	1061.000	110.00	29.000
15	2:17:59	0.883	1083.000	110.00	22.000
16	2:20:59	0.933	1103.000	110.00	20.000
17	2:23:59	0.983	1112.000	110.00	9.000
18	2:26:59	1.033	1123.000	110.00	11.000
19	2:29:59	1.083	1133.000	110.00	10.000
20	2:32:59	1.133	1143.000	110.00	10.000
21	2:35:59	1.183	1150.000	110.00	7.000
22	2:38:59	1.233	1156.000	110.00	6.000
23	2:41:59	1.283	1160.000	110.00	4.000
FINAL FLOW PERIOD					
24	2:43: 0	1.300	129.000	110.00	-1031.000
25	2:46:59	1.367	129.000	110.00	0.000
26	2:51:59	1.450	129.000	110.00	0.000
27	2:56:59	1.533	129.000	110.00	0.000
28	3: 1:59	1.617	129.000	110.00	0.000
29	3: 6:59	1.700	129.000	110.00	0.000
30	3:11:59	1.783	129.000	110.00	0.000
FINAL SHUT-IN PERIOD					
31	3:14:59	1.833	657.000	110.00	528.000
32	3:17:59	1.883	864.000	110.00	207.000
33	3:20:59	1.933	948.000	110.00	84.000
34	3:23:59	1.983	993.000	110.00	45.000
35	3:26:59	2.033	1023.000	110.00	30.000
36	3:29:59	2.083	1047.000	110.00	24.000
37	3:32:59	2.133	1065.000	110.00	18.000
38	3:35:59	2.183	1079.000	110.00	14.000
39	3:38:59	2.233	1093.000	110.00	14.000
40	3:41:59	2.283	1105.000	110.00	12.000
41	3:44:59	2.333	1111.000	110.00	6.000
42	3:47:59	2.383	1119.000	110.00	8.000
43	3:50:59	2.433	1126.000	110.00	7.000
44	3:53:59	2.483	1132.000	110.00	6.000
45	3:56:59	2.533	1137.000	110.00	5.000
46	3:59:59	2.583	1142.000	110.00	5.000
47	4: 2:59	2.633	1147.000	110.00	5.000
48	4: 5:59	2.683	1152.000	110.00	5.000

COMPANY : HONEY OIL COMPANY INC.
WELL : #1
GAUGE # : 11018
DATE : 16/ 5/90

FIELD : NAPUE
JOB # : 16048
DEPTH : 3393
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	4: 8:59	2.733	1154.000	110.00	2.000
50	4:11:59	2.783	1156.000	110.00	2.000

WESTERN TESTING CO. INC.

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HONEY OIL COMPANY INC.
RIG : GRAHAM-KANSAS
FIELD : NAPUE
WELL : #1
DATE : 5-16-90
GAUGE NO : 11018
TEST : DST-2 SHUTIN-1

COMPANY : HONEY OIL COMPANY INC.
WELL : #1
GAUGE # : 11018
DATE : 16/ 5/90
Comment : DST-2 SHUTIN-1
Horner T: .5833333 Hours

FIELD : NAPUE
JOB # : 16048
DEPTH : 3393
TEST :

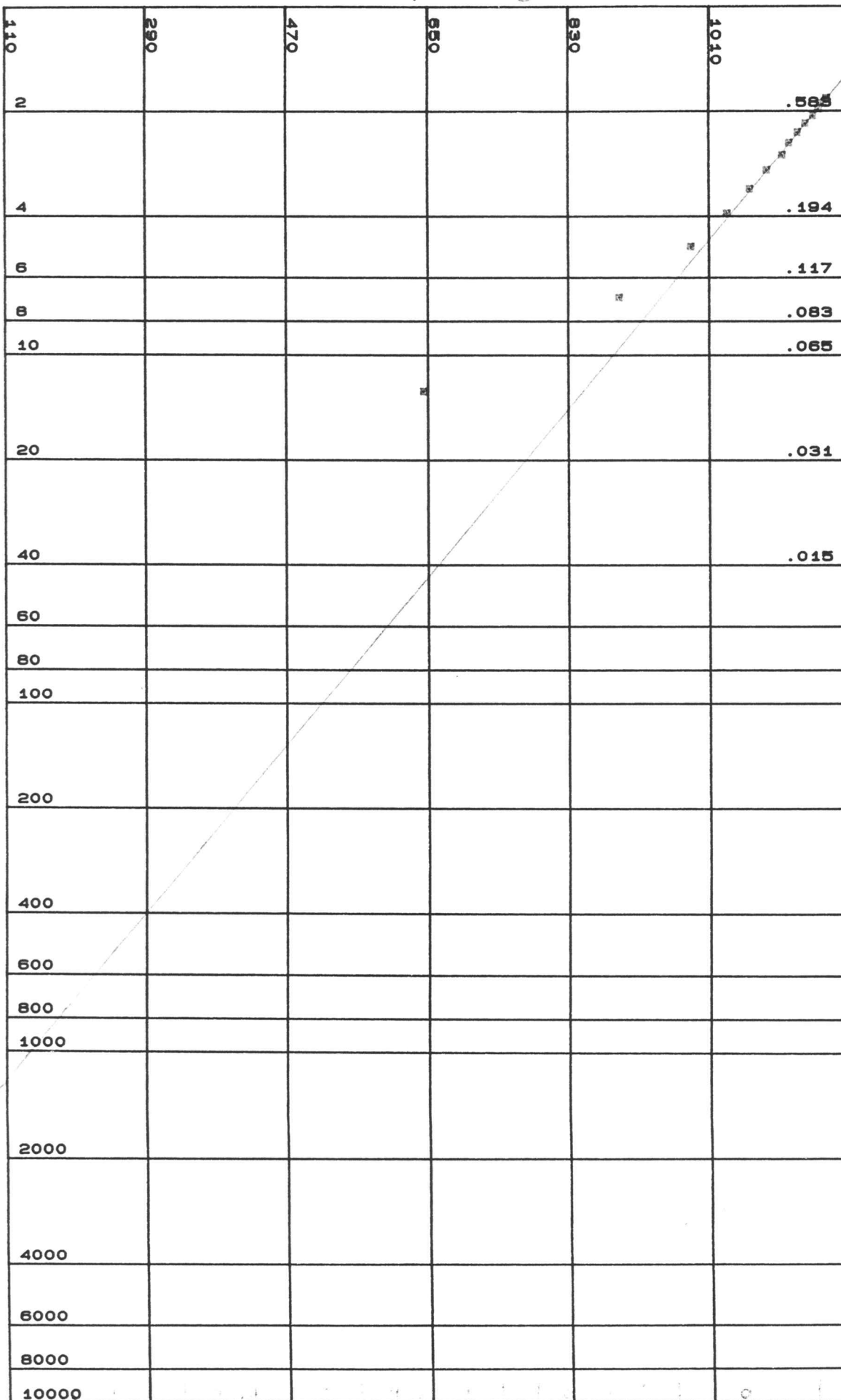
DATA No.	REAL TIME HR:MM:SS	EVENT TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	HORNER (T+dt)/dt	DELTA P PSIG
9	1:59:59	0.000	117.000	110.00	0.0000	0.000
10	2: 2:59	0.050	644.000	110.00	12.6667	527.000
11	2: 5:59	0.100	894.000	110.00	6.8333	777.000
12	2: 8:59	0.150	986.000	110.00	4.8889	869.000
13	2:11:59	0.200	1032.000	110.00	3.9167	915.000
14	2:14:59	0.250	1061.000	110.00	3.3333	944.000
15	2:17:59	0.300	1083.000	110.00	2.9444	966.000
16	2:20:59	0.350	1103.000	110.00	2.6667	986.000
17	2:23:59	0.400	1112.000	110.00	2.4583	995.000
18	2:26:59	0.450	1123.000	110.00	2.2963	1006.000
19	2:29:59	0.500	1133.000	110.00	2.1667	1016.000
20	2:32:59	0.550	1143.000	110.00	2.0606	1026.000
21	2:35:59	0.600	1150.000	110.00	1.9722	1033.000
22	2:38:59	0.650	1156.000	110.00	1.8974	1039.000
23	2:41:59	0.700	1160.000	110.00	1.8333	1043.000

WESTERN TESTING CO. INC.

Figure 1

ON THE 14TH DAY OF JANUARY 1900

○



WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HONEY OIL COMPANY INC.
RIG : GRAHAM-KANSAS
FIELD : NAPUE
WELL : #1
DATE : 5-16-90
GAUGE NO : 11018
TEST : DST-2 SHUTIN-2

COMPANY : HONEY OIL COMPANY INC.
WELL : #1
GAUGE # : 11018
DATE : 16/ 5/90
Comment : DST-2 SHUTIN-2
Horner T: 1.083333 Hours

FIELD : NAPUE
JOB # : 16048
DEPTH : 3393
TEST :

DATA No.	REAL TIME HR:MM:SS	EVENT TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	HORNER (T+dt)/dt	DELTA P PSIG
30	3:11:59	0.000	129.000	110.00	0.0000	0.000
31	3:14:59	0.050	657.000	110.00	22.6667	528.000
32	3:17:59	0.100	864.000	110.00	11.8333	735.000
33	3:20:59	0.150	948.000	110.00	8.2222	819.000
34	3:23:59	0.200	993.000	110.00	6.4167	864.000
35	3:26:59	0.250	1023.000	110.00	5.3333	894.000
36	3:29:59	0.300	1047.000	110.00	4.6111	918.000
37	3:32:59	0.350	1065.000	110.00	4.0952	936.000
38	3:35:59	0.400	1079.000	110.00	3.7083	950.000
39	3:38:59	0.450	1093.000	110.00	3.4074	964.000
40	3:41:59	0.500	1105.000	110.00	3.1667	976.000
41	3:44:59	0.550	1111.000	110.00	2.9697	982.000
42	3:47:59	0.600	1119.000	110.00	2.8056	990.000
43	3:50:59	0.650	1126.000	110.00	2.6667	997.000
44	3:53:59	0.700	1132.000	110.00	2.5476	1003.000
45	3:56:59	0.750	1137.000	110.00	2.4444	1008.000
46	3:59:59	0.800	1142.000	110.00	2.3542	1013.000
47	4: 2:59	0.850	1147.000	110.00	2.2745	1018.000
48	4: 5:59	0.900	1152.000	110.00	2.2037	1023.000
49	4: 8:59	0.950	1154.000	110.00	2.1404	1025.000
50	4:11:59	1.000	1156.000	110.00	2.0833	1027.000

WESTERN TESTING CO. INC.

WESTERN TESTING CO. INC.
WICHITA-KANSAS

WELL TEST ANALYSIS REPORT
HORNER METHOD
SHUTIN No. 2

COMPANY. HONEY OIL COMPANY INC.
DATE 5-16-90
FIELD. NAPUE
WELL #1
AREA GRAHAM-KANSAS
JOB NUMBER 16048
GAUGE NUMBER . . . 11018
GAUGE DEPTH. . . . 3393
ZONE TESTED. . . . 3374-3393

PHASE : OIL FUNCTION : PRESSURE

=====I=N=P=U=T====D=A=T=A====S=U=M=M=A=R=Y=====

THICKNESS.	H	8.0000E+00	Feet
POROSITY	POR	1.5000E-01	Frac
VISCOSITY.	U	4.8878E+00	Cp
FORMATION VOLUME FACTOR.	B	1.0360E+00	Rb/stb
TOTAL COMPRESSIBILITY.	Ct	6.7863E-06	Psi ⁻¹
WELLBORE RADIUS.	Rw	5.2000E-01	Feet
DRAINAGE RADIUS.	Re	7.5000E+02	Feet
RESERVOIR TEMPERATURE.	T	1.1000E+02	Deg F
GRAVITY OF FLUID	G	3.7000E+01	
PVT EVALUATION PRESSURE.	P	1.1560E+03	Psig
PRESSURE AT SHUT-IN.	Pwf	1.2900E+02	Psig
FINAL RECORDED PRESSURE.	Ps	1.1560E+03	Psig
PRODUCTION RATE.	Q	1.5600E+00	Bbl/day
TOTAL FLOW TIME.	T	1.0833E+00	Hours

=====R=E=G=R=E=S=S=I=O=N====R=E=S=U=L=T=S=====

LEAST SQUARE RESULTS OVER THE INTERVAL :
FROM 0 TO 0

SLOPE OF THE LINE. 2.6617E+02 psi/cycle
FALSE PRESSURE, PSTAR. 1.2418E+03 psi
PRESSURE AT 1 HOUR 1.1570E+03 psi

=====A=N=A=L=Y=S=I=S====R=E=S=U=L=T=S=====

TRANSMISSIBILITY.	Kh/u	9.8726E-01	md-ft/cp
FLOW CAPACITY.	Kh	4.8255E+00	md-ft
PERMEABILITY to PHASE.	K	6.0319E-01	md
DAMAGE RATIO	Dr	1.7013E+00	
RADIUS OF INVESTIGATION.	Rinv	1.1770E+01	ft
SKIN FACTOR.	S	1.9854E+00	
AVERAGE PRESSURE	Pbar	1.2418E+03	psig
DIMENSIONLESS TIME	Tda	1.9620E-05	
MATTHEWS-BRONS-HAZEBROEK	PDmbh	2.4656E-04	

Pressure, P (psi)

Job No. 18048
WESTERN TESTING CO. INC.

Horner Ratio, (T+dt)/dt

Pressure

1345	TEST DATE: 5-16-90	Pwf	129
	GAUGE NUM: 11018	Pstar	1241.823
	EVENT ID: DST-2	P1hr	1156.978
	USER CMNT: SHUT-IN-2	Slope	-266.178
1170	Horner T: 1.08333 hrs		
995	1.083		
	.361		
	.217		
	.155		
	.12		
820	.057		
	.028		
645			
470			
295			
120			
2			
4			
6			
8			
10			
20			
40			
60			
80			
100			
200			
400			
600			
800			
1000			
2000			
4000			
6000			
8000			
10000			

COMPANY: HONEY OIL COMPANY INC.

WELL #1
LOCATION: GRAHAM-KANSAS

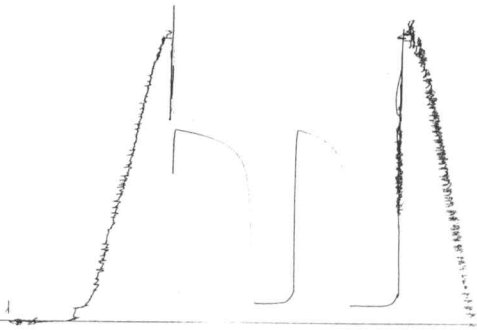
ENGINEER: CAROL KENDRICK

13629

KT 16048

Howey
DST 2

D

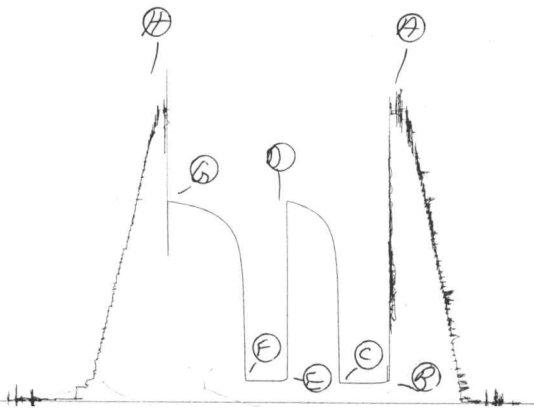


11018

JK7 16048

Honey
DST2

I





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 16049

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

Elevation 2138 GL Formation LANSI Eff. Pay _____ Ft.

District 14 WAKEENY Date 5-17-90 Customer Order No. _____

COMPANY NAME H175 Honey Oil Co. Inc.

ADDRESS 401 EAST Douglas - Suite 505 - Wichita, Ks. 66202

LEASE AND WELL NO. NAPUE #1 COUNTY GRAHAM STATE KS Sec. 11 Twp. 7S Rge. 21W

Mail Invoice To Duke Drilling Co. Name Honey Oil Address NAPUE #1 No. Copies Requested Key

Mail Charts To Honey Oil Address NAPUE #1 No. Copies Requested Key

Formation Test No. 3 Interval Tested From 3400 ft. to 3430 ft. Total Depth 3430 ft.

Packer Depth 3395 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 3400 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3418 ft.

Recorder Number 11018 Cap. 4425

Bottom Recorder Depth (Outside) 3421 ft.

Recorder Number 13629 Cap. 4425

Below Straddle Recorder Depth _____ ft.

Recorder Number _____ Cap. _____

Drilling Contractor Duke #4

Drill Collar Length 90 I. D. 2 1/2 in.

Mud Type chem Viscosity 47

Weight Pipe Length _____ I. D. _____ in.

Weight 9.3 Water Loss 8.4 cc.

Drill Pipe Length 3290 I. D. 3.8 in.

Chlorides 2,700 P.P.M.

Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make _____ Serial Number _____

Anchor Length 30 ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out NO

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 1 1/4 in.

Blow: Weak - dead 20 min. I.F.P.

NONE - F.I.F.P.

Recovered 600 ft. of Drilling mud w/ few spts. oil

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

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

Time On Location 12:30 A.M. Time Pick Up Tool 1:00 A.M. Time Off Location 6:30 A.M.

Time Set Packer(s) 2:25 A.M. Time Started Off Bottom 4:10 A.M. Maximum Temperature 110

Initial Hydrostatic Pressure _____ (A) 1735 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 33 P.S.I. to (C) 44 P.S.I.

Initial Closed In Period _____ Minutes 30 (D) 1085 P.S.I.

Final Flow Period _____ Minutes 15:30 (E) 66 P.S.I. to (F) 66 P.S.I.

Final Closed In Period _____ Minutes 30 (G) 1085 P.S.I.

Final Hydrostatic Pressure _____ (H) 1702 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 _____

FIELD INVOICE

Open Hole Test \$ 400
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

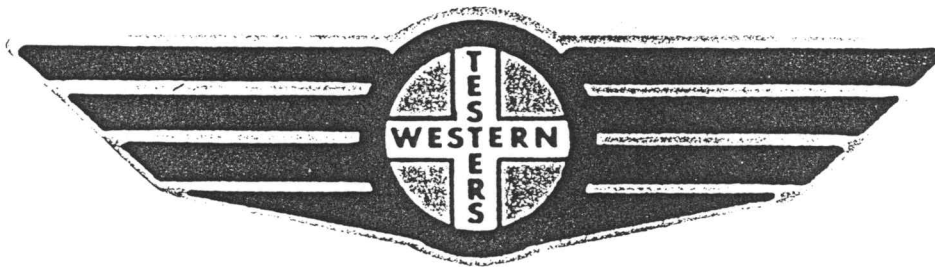
Date 5-17-80 Test Ticket No. 16049
Recorder No. 11018 Capacity 4425 Location _____ Ft.
Clock No. _____ Elevation _____ Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1740</u> P.S.I.	Open Tool	<u>2:25 A</u> M	
B First Initial Flow Pressure	<u>50</u> P.S.I.	First Flow Pressure	<u>50</u> Mins	<u>50</u> Mins.
C First Final Flow Pressure	<u>55</u> P.S.I.	Initial Closed-in Pressure	<u>50</u> Mins	<u>50</u> Mins.
D Initial Closed-in Pressure	<u>1108</u> P.S.I.	Second Flow Pressure	<u>15</u> Mins	<u>15</u> Mins.
E Second Initial Flow Pressure	<u>78</u> P.S.I.	Final Closed-in Pressure	<u>50</u> Mins	<u>50</u> Mins.
F Second Final Flow Pressure	<u>78</u> P.S.I.			
G Final Closed-in Pressure	<u>1111</u> P.S.I.			
H Final Hydrostatic Mud	<u>1740</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>50</u>	0	<u>55</u>	0	<u>78</u>	0	<u>78</u>
P 2 5	<u>50</u>	3	<u>83</u>	5	<u>78</u>	3	<u>524</u>
P 3 10	<u>50</u>	6	<u>697</u>	10	<u>78</u>	6	<u>914</u>
P 4 15	<u>50</u>	9	<u>746</u>	15	<u>78</u>	9	<u>1008</u>
P 5 20	<u>50</u>	12	<u>1012</u>	20		12	<u>1027</u>
P 6 25	<u>53</u>	15	<u>1045</u>	25		15	<u>1061</u>
P 7 30	<u>55</u>	18	<u>1065</u>	30		18	<u>1077</u>
P 8 35		21	<u>1079</u>	35		21	<u>1089</u>
P 9 40		24	<u>1093</u>	40		24	<u>1097</u>
P10 45		27	<u>1100</u>	45		27	<u>1104</u>
P11 50		30	<u>1108</u>	50		30	<u>1111</u>
P12 55		33		55		33	
P13 60		36		60		36	
P14 65		39		65		39	
P15 70		42		70		42	
P16 75		45		75		45	
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

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	5-17-90	TICKET	:	16049
CUSTOMER	:	HONEY OIL COMPANY INC.	LEASE	:	NAPUE
WELL	:	#1	TEST:	:	3
ELEVATION	:	2138 GL	GEOLOGIST	:	BAKER
SECTION	:	11	FORMATION	:	LANSING
RANGE	:	21W	TOWNSHIP	:	7S
	:	COUNTY :	STATE	:	KANSAS
GAUGE SN#	:	11018	RANGE :	:	4425
	:		CLOCK	:	12

INTERVAL FROM	:	3400	TO	:	3430	TOTAL DEPTH	:	3430
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3395	SIZE	:	6.75			
PACKER DEPTH	:	3400	SIZE	:	6.75			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	DUKE #4			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	47
WEIGHT	:	9.3	WATER LOSS (CC)	:	8.4
CHLORIDES (PPM)	:	2700			
JARS-MAKE	:		SERIAL NUMBER	:	
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	90	FT	I.D. inch	:	2.20
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3290	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	30	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.
BLOW COMMENT #2 : DEAD IN 20 MINUTES.
BLOW COMMENT #3 : FINAL FLOW PERIOD NO BLOW.
BLOW COMMENT #4 :

RECOVERED : 60 FT OF: DRILLING MUD W/ FEW SPTS. OIL

Total Barrels Fluid = 0.28
Total Fluid Prod Rate = 9.03 BFPD
Indicated Wtr Rate = 0.90 BWPD

REMARK 1 :
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 2:25 A.M.

TIME STARTED OFF BOTTOM : 4:10 A.M.

WELL TEMPERATURE : 110

INITIAL HYDROSTATIC PRESSURE

(A) 1740

INITIAL FLOW PERIOD MIN: 30

(B) 50 PSI TO (C) : 55

INITIAL CLOSED IN PERIOD MIN: 30

(D) 1108

FINAL FLOW PERIOD MIN: 15

(E) 78 PSI TO (F) : 78

FINAL CLOSED IN PERIOD MIN: 30

(G) 1111

FINAL HYDROSTATIC PRESSURE

(H) 1740

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HONEY OIL COMPANY INC.
RIG : GRAHAM-KANSAS
FIELD : NAPUE
WELL : #1
DATE : 5-17-90
GAUGE NO : 11018

OPERATIONAL COMMENTS

COMPANY : HONEY OIL COMPANY INC.
WELL : #1
GAUGE # : 11018
DATE : 17/ 5/90

FIELD : NAPUE
JOB # : 16049
DEPTH : 3430
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	2:25: 0	0.000	50.000	110.00	0.000
3	2:29:59	0.083	50.000	110.00	0.000
4	2:35: 0	0.167	50.000	110.00	0.000
5	2:40: 0	0.250	50.000	110.00	0.000
6	2:44:59	0.333	50.000	110.00	0.000
7	2:50: 0	0.417	53.000	110.00	3.000
8	2:55: 0	0.500	55.000	110.00	2.000
INITIAL SHUT-IN PERIOD					
9	2:58: 0	0.550	83.000	110.00	28.000
10	3: 1: 0	0.600	697.000	110.00	614.000
11	3: 4: 0	0.650	946.000	110.00	249.000
12	3: 7: 0	0.700	1013.000	110.00	67.000
13	3:10: 0	0.750	1045.000	110.00	32.000
14	3:13: 0	0.800	1065.000	110.00	20.000
15	3:16: 0	0.850	1079.000	110.00	14.000
16	3:19: 0	0.900	1093.000	110.00	14.000
17	3:22: 0	0.950	1100.000	110.00	7.000
18	3:25: 0	1.000	1108.000	110.00	8.000
FINAL FLOW PERIOD					
19	3:26: 0	1.017	78.000	110.00	-1030.000
20	3:29:59	1.083	78.000	110.00	0.000
21	3:35: 0	1.167	78.000	110.00	0.000
22	3:40: 0	1.250	78.000	110.00	0.000
FINAL SHUT-IN PERIOD					
23	3:43: 0	1.300	574.000	110.00	496.000
24	3:46: 0	1.350	914.000	110.00	340.000
25	3:49: 0	1.400	1008.000	110.00	94.000
26	3:52: 0	1.450	1037.000	110.00	29.000
27	3:55: 0	1.500	1061.000	110.00	24.000
28	3:58: 0	1.550	1077.000	110.00	16.000
29	4: 1: 0	1.600	1089.000	110.00	12.000
30	4: 4: 0	1.650	1097.000	110.00	8.000
31	4: 7: 0	1.700	1104.000	110.00	7.000
32	4:10: 0	1.750	1111.000	110.00	7.000

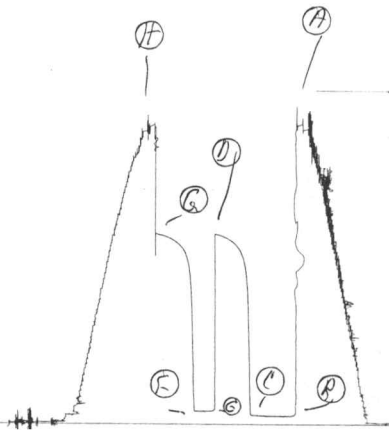
WESTERN TESTING CO. INC.

11018

KT 16049

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DST 3

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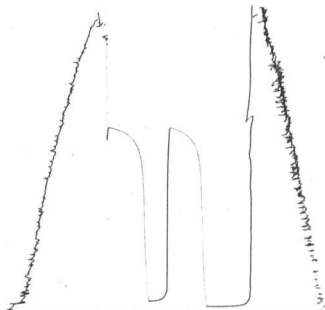


13629

KT 16049

Honey
PST 3

O





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 16050

P. O. BOX 1599 PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation 2138 GL Formation LANS. Eff. Pay Ft.

District 14 WAKEENEY Date 5-17-90 Customer Order No.
COMPANY NAME HONEY OIL CO., INC.
ADDRESS 401 EAST DOUGLAS - SUITE 505 - WICHITA, KS. 67202
LEASE AND WELL NO. NAPUE #1 COUNTY GRAHAM STATE KS Sec. 11 Twp. 7S Rge. 21W
Mail Invoice To DOUG DUKING Co. Name Honey Oil Address NAPUE #1 No. Copies Requested Reg
Mail Charts To Honey Oil Address NAPUE #1 No. Copies Requested Reg

Formation Test No. 4 Interval Tested From 3425 ft. to 3463 ft. Total Depth 3463 ft.
Packer Depth 3425 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3425 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 3453 ft. Recorder Number 11018 Cap. 4425
Bottom Recorder Depth (Outside) 3458 ft. Recorder Number 13629 Cap. 4425
Below Straddle Recorder Depth ft. Recorder Number Cap.
Drilling Contractor DUKE #4 Drill Collar Length 150 I. D. 2.2 in.
Mud Type G.C.M. Viscosity 46 Weight Pipe Length I. D. in.
Weight 9.2 Water Loss 8.4 cc. Drill Pipe Length 3255 I. D. 3.8 in.
Chlorides 2,200 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 00 in.
Jars: Make Serial Number Anchor Length 38 ft. Size 5 1/2 00 in.
Did Well Flow? NO Reversed Out NO 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 XH in.

Blow: WEAK - 1/4" IN BUCKET THRU F.F.P.
WEAK - 1/4" IN BUCKET F.F.P.
Recovered 90 ft. of G.I.P.
Recovered 60 ft. of CLEAN OIL 39 Gravity CGR.
Recovered 90 ft. of O.C.M. - 15 oil - 85 mud
Recovered ft. of
Recovered ft. of
Chlorides P.P.M. Sample Jars used 1 Remarks:

Time On Location 12:00 A.M. Time Pick Up Tool 12:30 A.M. Time Off Location 7:30 A.M.
Time Set Packer(s) 1:55 P.M. Time Started Off Bottom 5:25 A.M. Maximum Temperature 111
Initial Hydrostatic Pressure (A) 1746 P.S.I.
Initial Flow Period Minutes 45 (B) 33 P.S.I. to (C) 66 P.S.I.
Initial Closed In Period Minutes 45 (D) 920 P.S.I.
Final Flow Period Minutes 60 (E) 77 P.S.I. to (F) 88 P.S.I.
Final Closed In Period Minutes 60 (G) 920 P.S.I.
Final Hydrostatic Pressure (H) 1724 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] 1950

FIELD INVOICE

Open Hole Test \$ 400
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$ 50
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$

WESTERN TESTING CO., INC.

Pressure Data

Date 5-17 Test Ticket No. 16050
 Reporter No. 11018 Capacity 4425 Location _____
 Clock No. _____ Elevation _____ Well Temperature _____

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Head	1753 1586 P.S.I.	210	213
B First Initial Flow Pressure	47 42 P.S.I.	45	50
C First Final Flow Pressure	73 66 P.S.I.	45	48
D Initial Closed-in Pressure	929 839 P.S.I.	60	60
E Second Initial Flow Pressure	93 84 P.S.I.	60	60
F Second Final Flow Pressure	93 84 P.S.I.		
G Final Closed-in Pressure	923 832 P.S.I.		
H Final Hydrostatic Head	1753 1568 P.S.I.		

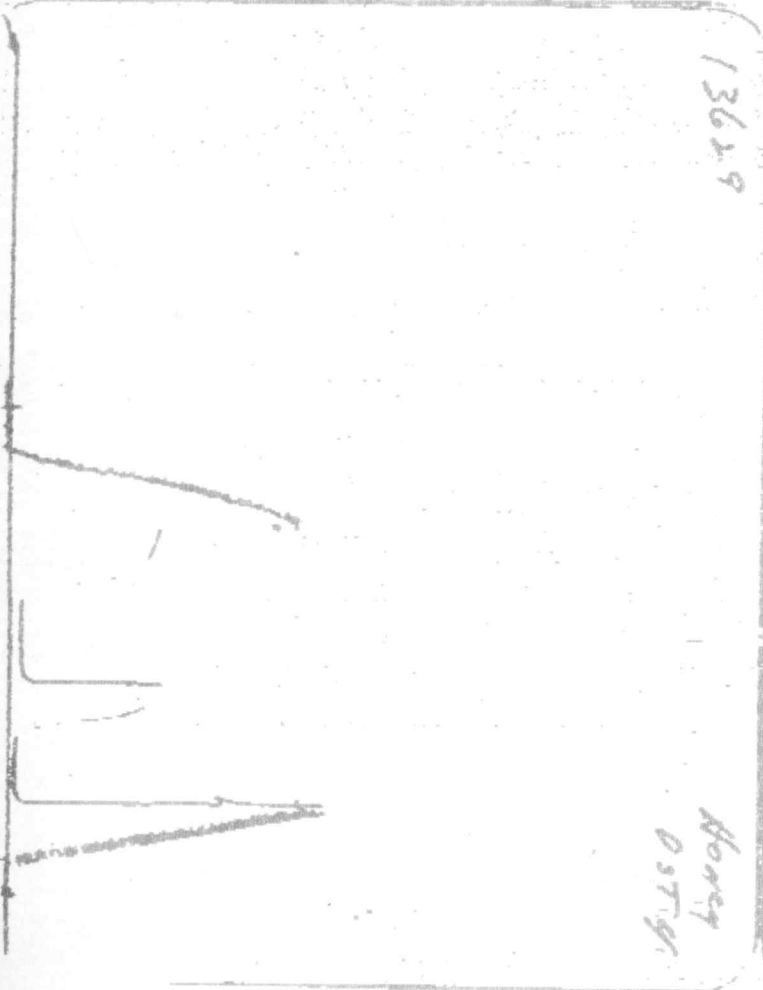
Pressures NOT
 Changed FROM
 1300K

PRESSURE BREAKDOWN

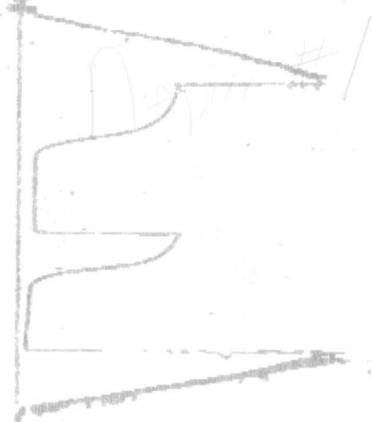
First Flow Pressure Breakdown		Initial Shut-In Breakdown		Second Flow Pressure Breakdown		Final Shut-In Breakdown	
of 5 min. and a final inc. of 0 Min.		of 3 min. and a final inc. of 0 Min.		of 5 min. and a final inc. of 0 Min.		of 3 min. and a final inc. of 0 Min.	
Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P1 0	47 42	0	77 66	0	93 84	0	84-9
P2 5	47 42	3	79 89	5		6	107 118
P3 10	47 42	6	79 100	10		9	147 162
P4 15	50 45	9	79 147	15		12	210 232
P5 20	51 50	12	236 262	20		15	307 341
P6 25	59 53	15	369 409	25		18	424 477
P7 30	61 56	18	514 571	30		21	538 591
P8 35	63 57	21	613 680	35		24	617 681
P9 40	65 59	24	684 759	40		27	668 741
P10 45	69 62	27	727 806	45		30	712 796
P11 50	73 66	30	756 839	50		33	737 817
P12		33	782 867	55		36	758 848
P13		36	799 885	60		39	775 859
P14		39	813 901			42	789 872
P15		42	825 915			45	800 888
P16		45	835 925			48	813 900
P17		48	839 929			51	816 902
P18						54	822 916
P19						57	828 918
P20						60	832 922

13629

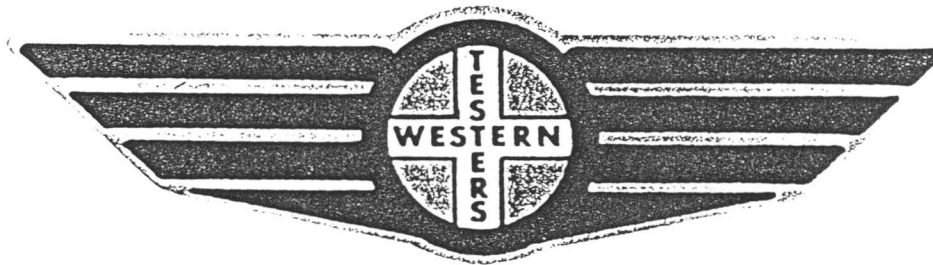
Heavy
DSTy



73.5011
7.9 W
DSTy



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY HONEY OIL COMPANY INC.

LEASE & WELL NO. NAPUE #1

SEC. 11 TWP. 7S RGE. 21W TEST NO. 4 DATE 5/17/90

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	5-17-90	TICKET	:	16050
CUSTOMER	:	HONEY OIL COMPANY INC.	LEASE	:	NAPUE
WELL	:	#1 TEST: 4	GEOLOGIST	:	BAKER
ELEVATION	:	2138 GL	FORMATION	:	LANSING
SECTION	:	11	TOWNSHIP	:	7S
RANGE	:	21W	STATE	:	KANSAS
Gauge SN#	:	11018	CLOCK	:	12
		COUNTY : GRAHAM			
		RANGE : 4425			

INTERVAL FROM	:	3425	TO	:	3463	TOTAL DEPTH	:	3463
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3420	SIZE	:	6.75			
PACKER DEPTH	:	3425	SIZE	:	6.75			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	DUKE #4			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	46
WEIGHT	:	9.2	WATER LOSS (CC)	:	8.4
CHLORIDES (PPM)	:	2200			
JARS-MAKE	:		SERIAL NUMBER	:	
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	150	FT	I.D. inch	:	2.20
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3255	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	38	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.
BLOW COMMENT #2 : 1/4 INCH IN BUCKET THROUGHOUT.
BLOW COMMENT #3 : FINAL FLOW PERIOD WEAK BLOW.
BLOW COMMENT #4 : 1 INCH IN BUCKET.

RECOVERED : 60 FT OF: CLEAN OIL 39 GRAVITY CORR.
RECOVERED : 90 FT OF: OIL-CUT MUD
RECOVERED : 0 FT OF: 15%OIL 85%MUD

Total Barrels Fluid = 0.71
Total Fluid Prod Rate = 9.23 BFPD
Indicated Oil Rate = 4.52 BOPD
Indicated Wtr Rate = 0.47 BWPD
Corrected Oil Rate = 7.88 BOPD
Corrected Wtr Rate = 0.83 BWPD

REMARK 1 :
REMARK 2 : 90 FT. GAS ABOVE FLUID
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 1:55 P.M. TIME STARTED OFF BOTTOM : 5:25 P.M.
WELL TEMPERATURE : 111
INITIAL HYDROSTATIC PRESSURE (A) 1753
INITIAL FLOW PERIOD MIN: 50 (B) 47 PSI TO (C) : 73
INITIAL CLOSED IN PERIOD MIN: 48 (D) 929
FINAL FLOW PERIOD MIN: 60 (E) 93 PSI TO (F) : 93
FINAL CLOSED IN PERIOD MIN: 60 (G) 923
FINAL HYDROSTATIC PRESSURE (H) 1733

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HONEY OIL COMPANY INC.
RIG : GRAHAM-KANSAS
FIELD : NAPUE
WELL : #1
DATE : 5-17-90
GAUGE NO : 11018

OPERATIONAL COMMENTS

90 FT. GAS ABOVE FLUID

COMPANY : HONEY OIL COMPANY INC.
WELL : #1
GAUGE # : 11018
DATE : 17/ 5/90

FIELD : NAPUE
JOB # : 16050
DEPTH : 3463
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	1:55: 0	0.000	47.000	111.00	0.000
3	1:59:59	0.083	47.000	111.00	0.000
4	2: 5: 0	0.167	47.000	111.00	0.000
5	2:10: 0	0.250	50.000	111.00	3.000
6	2:14:59	0.333	51.000	111.00	1.000
7	2:20: 0	0.417	59.000	111.00	8.000
8	2:25: 0	0.500	61.000	111.00	2.000
9	2:29:59	0.583	63.000	111.00	2.000
10	2:35: 0	0.667	65.000	111.00	2.000
11	2:40: 0	0.750	69.000	111.00	4.000
12	2:44:59	0.833	73.000	111.00	4.000
INITIAL SHUT-IN PERIOD					
13	2:47:59	0.883	87.000	111.00	14.000
14	2:50:59	0.933	111.000	111.00	24.000
15	2:53:59	0.983	163.000	111.00	52.000
16	2:56:59	1.033	262.000	111.00	99.000
17	2:59:59	1.083	409.000	111.00	147.000
18	3: 2:59	1.133	571.000	111.00	162.000
19	3: 5:59	1.183	680.000	111.00	109.000
20	3: 8:59	1.233	759.000	111.00	79.000
21	3:11:59	1.283	806.000	111.00	47.000
22	3:14:59	1.333	839.000	111.00	33.000
23	3:17:59	1.383	867.000	111.00	28.000
24	3:20:59	1.433	885.000	111.00	18.000
25	3:23:59	1.483	901.000	111.00	16.000
26	3:26:59	1.533	915.000	111.00	14.000
27	3:29:59	1.583	925.000	111.00	10.000
28	3:32:59	1.633	929.000	111.00	4.000
FINAL FLOW PERIOD					
29	3:34: 0	1.650	93.000	111.00	-836.000
30	3:37:59	1.717	93.000	111.00	0.000
31	3:43: 0	1.800	93.000	111.00	0.000
32	3:47:59	1.883	93.000	111.00	0.000
33	3:52:59	1.967	93.000	111.00	0.000
34	3:58: 0	2.050	93.000	111.00	0.000
35	4: 2:59	2.133	93.000	111.00	0.000
36	4: 7:59	2.217	93.000	111.00	0.000
37	4:13: 0	2.300	93.000	111.00	0.000
38	4:17:59	2.383	93.000	111.00	0.000
39	4:22:59	2.467	93.000	111.00	0.000
40	4:28: 0	2.550	93.000	111.00	0.000
41	4:32:59	2.633	93.000	111.00	0.000
FINAL SHUT-IN PERIOD					
42	4:35:59	2.683	101.000	111.00	8.000
43	4:38:59	2.733	118.000	111.00	17.000
44	4:41:59	2.783	163.000	111.00	45.000
45	4:44:59	2.833	233.000	111.00	70.000
46	4:47:59	2.883	341.000	111.00	108.000
47	4:50:59	2.933	471.000	111.00	130.000
48	4:53:59	2.983	597.000	111.00	126.000

COMPANY : HONEY OIL COMPANY INC.
WELL : #1
GAUGE # : 11018
DATE : 17/ 5/90

FIELD : NAPUE
JOB # : 16050
DEPTH : 3463
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	4:56:59	3.033	684.000	111.00	87.000
50	4:59:59	3.083	741.000	111.00	57.000
51	5: 2:59	3.133	790.000	111.00	49.000
52	5: 5:59	3.183	817.000	111.00	27.000
53	5: 8:59	3.233	840.000	111.00	23.000
54	5:11:59	3.283	859.000	111.00	19.000
55	5:14:59	3.333	875.000	111.00	16.000
56	5:17:59	3.383	887.000	111.00	12.000
57	5:20:59	3.433	901.000	111.00	14.000
58	5:23:59	3.483	905.000	111.00	4.000
59	5:26:59	3.533	912.000	111.00	7.000
60	5:29:59	3.583	918.000	111.00	6.000
61	5:32:59	3.633	923.000	111.00	5.000

WESTERN TESTING CO. INC.

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HONEY OIL COMPANY INC.
RIG : GRAHAM-KANSAS
FIELD : NAPUE
WELL : #1
DATE : 5-17-90
GAUGE NO : 11018
TEST : DST-4 SHUTIN-1

COMPANY : HONEY OIL COMPANY INC.
WELL : #1
GAUGE # : 11018
DATE : 17/ 5/90
Comment : DST-4 SHUTIN-1
Horner T: .8333333 Hours

FIELD : NAPUE
JOB # : 16050
DEPTH : 3463
TEST :

DATA No.	REAL TIME HR:MM:SS	EVENT TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	HORNER (T+dt)/dt	DELTA P PSIG
12	2:44:59	0.000	73.000	111.00	0.0000	0.000
13	2:47:59	0.050	87.000	111.00	17.6667	14.000
14	2:50:59	0.100	111.000	111.00	9.3333	38.000
15	2:53:59	0.150	163.000	111.00	6.5556	90.000
16	2:56:59	0.200	262.000	111.00	5.1667	189.000
17	2:59:59	0.250	409.000	111.00	4.3333	336.000
18	3: 2:59	0.300	571.000	111.00	3.7778	498.000
19	3: 5:59	0.350	680.000	111.00	3.3810	607.000
20	3: 8:59	0.400	759.000	111.00	3.0833	686.000
21	3:11:59	0.450	806.000	111.00	2.8519	733.000
22	3:14:59	0.500	839.000	111.00	2.6667	766.000
23	3:17:59	0.550	867.000	111.00	2.5152	794.000
24	3:20:59	0.600	885.000	111.00	2.3889	812.000
25	3:23:59	0.650	901.000	111.00	2.2821	828.000
26	3:26:59	0.700	915.000	111.00	2.1905	842.000
27	3:29:59	0.750	925.000	111.00	2.1111	852.000
28	3:32:59	0.800	929.000	111.00	2.0417	856.000

WESTERN TESTING CO. INC.

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HONEY OIL COMPANY INC.
RIG : GRAHAM-KANSAS
FIELD : NAPUE
WELL : #1
DATE : 5-17-90
GAUGE NO : 11018
TEST : DST-4 SHUTIN-2

COMPANY : HONEY OIL COMPANY INC.
 WELL : #1
 GAUGE # : 11018
 DATE : 17/ 5/90
 Comment : DST-4 SHUTIN-2
 Horner T: 1.833333 Hours

FIELD : NAPUE
 JOB # : 16050
 DEPTH : 3463
 TEST :

DATA No.	REAL TIME HR:MM:SS	EVENT TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	HORNER (T+dt)/dt	DELTA P PSIG
41	4:32:59	0.000	93.000	111.00	0.0000	0.000
42	4:35:59	0.050	101.000	111.00	37.6667	8.000
43	4:38:59	0.100	118.000	111.00	19.3333	25.000
44	4:41:59	0.150	163.000	111.00	13.2222	70.000
45	4:44:59	0.200	233.000	111.00	10.1667	140.000
46	4:47:59	0.250	341.000	111.00	8.3333	248.000
47	4:50:59	0.300	471.000	111.00	7.1111	378.000
48	4:53:59	0.350	597.000	111.00	6.2381	504.000
49	4:56:59	0.400	684.000	111.00	5.5833	591.000
50	4:59:59	0.450	741.000	111.00	5.0741	648.000
51	5: 2:59	0.500	790.000	111.00	4.6667	697.000
52	5: 5:59	0.550	817.000	111.00	4.3333	724.000
53	5: 8:59	0.600	840.000	111.00	4.0556	747.000
54	5:11:59	0.650	859.000	111.00	3.8205	766.000
55	5:14:59	0.700	875.000	111.00	3.6190	782.000
56	5:17:59	0.750	887.000	111.00	3.4444	794.000
57	5:20:59	0.800	901.000	111.00	3.2917	808.000
58	5:23:59	0.850	905.000	111.00	3.1569	812.000
59	5:26:59	0.900	912.000	111.00	3.0370	819.000
60	5:29:59	0.950	918.000	111.00	2.9298	825.000
61	5:32:59	1.000	923.000	111.00	2.8333	830.000

WESTERN TESTING CO. INC.

WESTERN TESTING CO. INC.
WICHITA-KANSAS

WELL TEST ANALYSIS REPORT
HORNER METHOD
SHUTIN No. 2

COMPANY. HONEY OIL COMPANY INC.
DATE 5-17-90
FIELD. NAPUE
WELL #1
AREA GRAHAM-KANSAS
JOB NUMBER 16050
GAUGE NUMBER . . . 11018
GAUGE DEPTH. . . . 3463
ZONE TESTED. . . . 3425-3463

PHASE : OIL FUNCTION : PRESSURE

=====I=N=P=U=T====D=A=T=A====S=U=M=M=A=R=Y=====

THICKNESS.	H	6.0000E+00	Feet
POROSITY	POR	1.4000E-01	Frac
VISCOSITY.	U	3.9427E+00	Cp
FORMATION VOLUME FACTOR. . . .	B	1.0381E+00	Rb/stb
TOTAL COMPRESSIBILITY.	Ct	6.9838E-06	Psi^-1
WELLBORE RADIUS.	Rw	5.2000E-01	Feet
DRAINAGE RADIUS.	Re	7.5000E+02	Feet
RESERVOIR TEMPERATURE.	T	1.1100E+02	Deq F
GRAVITY OF FLUID	G	3.9000E+01	
PVT EVALUATION PRESSURE.	P	9.2300E+02	Psig
PRESSURE AT SHUT-IN.	Pwf	9.3000E+01	Psig
FINAL RECORDED PRESSURE.	Ps	9.2300E+02	Psig
PRODUCTION RATE.	Q	7.1000E-01	Bbl/day
TOTAL FLOW TIME.	T	1.8333E+00	Hours

=====R=E=G=R=E=S=S=I=D=N====R=E=S=U=L=T=S=====

LEAST SQUARE RESULTS OVER THE INTERVAL :
FROM 0 TO 0

SLOPE OF THE LINE. 3.4950E+02 psi/cycle
FALSE PRESSURE, PSTAR. 1.0808E+03 psi
PRESSURE AT 1 HOUR 9.2276E+02 psi

=====A=N=A=L=Y=S=I=S====R=E=S=U=L=T=S=====

TRANSMISSIBILITY.	Kh/u	3.4290E-01	md-ft/cp
FLOW CAPACITY.	Kh	1.3520E+00	md-ft
PERMEABILITY to PHASE.	K	2.2533E-01	md
DAMAGE RATIO	Dr	1.1935E+00	
RADIUS OF INVESTIGATION. . .	Rinv	1.0632E+01	ft
SKIN FACTOR.	S	5.2781E-01	
AVERAGE PRESSURE	Pbar	1.0808E+03	psig
DIMENSIONLESS TIME	Tda	1.6009E-05	
MATTHEWS-BRONS-HAZEBROEK .	PDmbh	2.0118E-04	

PROBABILITY TABLE

0	100	200	300	400	500	600	700	800	900	1000
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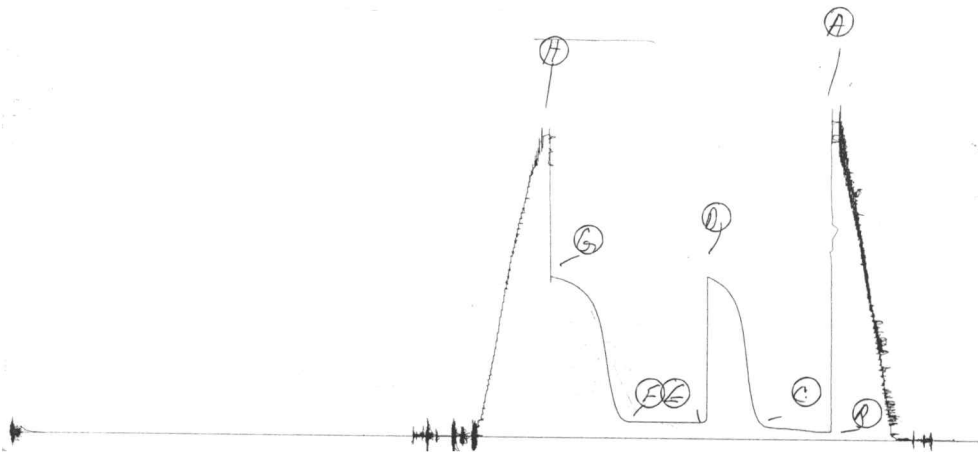
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