



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 16606

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

Elevation 2127 ft. Formation \_\_\_\_\_ Eff. Pay \_\_\_\_\_ Ft.

pm 19

District WAKEENY Date 7-6-90 Customer Order No. \_\_\_\_\_

COMPANY NAME Honey Oil Co. Inc.

ADDRESS 401 East Douglas - Suite 505 - Wichita, KS, 67202

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

Mail Invoice To Duke Drilling Co. Co. Name Address No. Copies Requested Reg

Mail Charts To Honey Oil Co. Address Benoit #1 No. Copies Requested Reg

Formation Test No. Interval Tested From 3372 ft. to 3390 ft. Total Depth 3390 ft.

Packer Depth 3367 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Packer Depth 3372 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3380 ft. Recorder Number 11018 Cap. 4425

Bottom Recorder Depth (Outside) 3383 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 Chemi Viscosity 42 Weight Pipe Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.

Weight 9.6 Water Loss 9.0 cc. Drill Pipe Length 3202 I. D. 3.8 in.

Chlorides 21000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make \_\_\_\_\_ Serial Number \_\_\_\_\_ Anchor Length 18 ft. Size 5 1/2 OD 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 - dead 5 min. I.F.P. NONE - F.I.F.P.

Recovered 60 ft. of Drilg mud

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Chlorides \_\_\_\_\_ P.P.M. Sample Jars used \_\_\_\_\_

Remarks: Flushed Tool F.I.F.P. Slid Tool 6" to Bottom after Tool opened

Time On Location 9:00 A.M. Time Pick Up Tool 9:30 P.M. Time Off Location 3:15 A.M. P.M.

Time Set Packer(s) 11:10 A.M. Time Started Off Bottom 1:10 A.M. P.M. Maximum Temperature 110

Initial Hydrostatic Pressure \_\_\_\_\_ (A) 1680 P.S.I.

Initial Flow Period \_\_\_\_\_ Minutes (B) 33 P.S.I. to (C) 33 P.S.I.

Initial Closed In Period \_\_\_\_\_ Minutes (D) 1019 P.S.I.

Final Flow Period \_\_\_\_\_ Minutes (E) 44 P.S.I. to (F) 55 P.S.I.

Final Closed In Period \_\_\_\_\_ Minutes (G) 865 P.S.I.

Final Hydrostatic Pressure \_\_\_\_\_ (H) 1647 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 Tom Priest Signature of Customer or his authorized representative

Western Representative Dave Sloan

Thank you (Signature)

FIELD INVOICE

Table with 2 columns: Item Name and Amount. 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

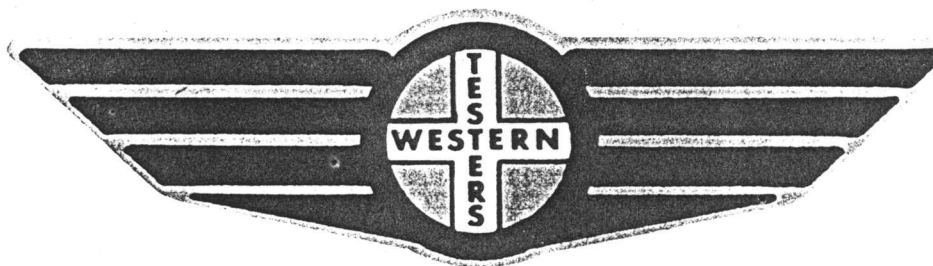
Date 7-6-50 Recorder No. 11018 Capacity 4425 Test Ticket No. 16606 Location \_\_\_\_\_ Ft. Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1680</u>	P.S.I.	<u>11:10 A</u>	M
B First Initial Flow Pressure	<u>55</u>	P.S.I.	<u>50</u>	Mins. <u>50</u> Mins.
C First Final Flow Pressure	<u>55</u>	P.S.I.	<u>50</u>	Mins. <u>50</u> Mins.
D Initial Closed-in Pressure	<u>1022</u>	P.S.I.	<u>50</u>	Mins. <u>50</u> Mins.
E Second Initial Flow Pressure	<u>61</u>	P.S.I.	<u>50</u>	Mins. <u>50</u> Mins.
F Second Final Flow Pressure	<u>66</u>	P.S.I.		
G Final Closed-in Pressure	<u>891</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1677</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>55</u>	0	<u>55</u>	0	<u>61</u>	0	<u>66</u>
P 2 5		3	<u>208</u>	5	<u>61</u>	3	<u>67</u>
P 3 10		6	<u>477</u>	10	<u>69 FT</u>	6	<u>226</u>
P 4 15		9	<u>661</u>	15	<u>67</u>	9	<u>460</u>
P 5 20		12	<u>265</u>	20	<u>66</u>	12	<u>594</u>
P 6 25		15	<u>842</u>	25	<u>60</u>	15	<u>692</u>
P 7 30	<u>55</u>	18	<u>897</u>	30	<u>60</u>	18	<u>757</u>
P 8 35		21	<u>937</u>	35		21	<u>800</u>
P 9 40		24	<u>977</u>	40		24	<u>833</u>
P10 45		27	<u>1000</u>	45		27	<u>867</u>
P11 50		30	<u>1022</u>	50		30	<u>891</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

COMPANY HONEY OIL COMPANY INC.

LEASE & WELL NO. BENOIT #1

SEC. 11 TWP. 7S RGE 21W TEST NO. 1

DATE 7/6/90

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 7-6-90 TICKET : 16606  
CUSTOMER : HONEY OIL COMPANY INC. LEASE : BENOIT  
WELL : #1 TEST: 1 GEOLOGIST : PRIEST  
ELEVATION : 2127 GL FORMATION :  
SECTION : 11 TOWNSHIP : 7S  
RANGE : 21W COUNTY : GRAHAM STATE : KANSAS  
GAUGE SN# : 11018 RANGE : 4425 CLOCK : 12

INTERVAL FROM : 3372 TO : 3390 TOTAL DEPTH : 3390  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3367 SIZE : 6.75  
PACKER DEPTH : 3372 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : DUKE #4  
MUD TYPE : CHEMICAL VISCOSITY : 42  
WEIGHT : 9.6 WATER LOSS (CC) : 9.0  
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 : 3202 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 18 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 5 MINUTES.  
BLOW COMMENT #3 : FINAL FLOW PERIOD NO BLOW.  
BLOW COMMENT #4 :

RECOVERED : 60 FT OF: DRLG. MUD

Total Barrels Fluid = 0.28  
Total Fluid Prod Rate = 6.77 BFPD  
Indicated Wtr Rate = 0.68 BWPD

REMARK 1 :  
REMARK 2 : FLUSHED TOOL DURING FINAL FLOW PERIOD.  
REMARK 3 : SLID TOOL 6 FT. TO BOTTOM AFTER TOOL OPENED.  
REMARK 4 :

SET PACKER(S) :	11:10 A.M.	TIME STARTED OFF BOTTOM :	1:10 P.M.
WELL TEMPERATURE :	110		
INITIAL HYDROSTATIC PRESSURE		(A)	1680
INITIAL FLOW PERIOD MIN:	30	(B)	55 PSI TO (C) : 55
INITIAL CLOSED IN PERIOD MIN:	30	(D)	1022
FINAL FLOW PERIOD MIN:	30	(E)	61 PSI TO (F) : 66
FINAL CLOSED IN PERIOD MIN:	30	(G)	891
FINAL HYDROSTATIC PRESSURE		(H)	1677

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
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COMPANY : HONEY OIL COMPANY INC.  
RIG : GRAHAM-KANSAS  
FIELD : BENOIT  
WELL : #1  
DATE : 7-6-90  
GAUGE NO : 11018

OPERATIONAL COMMENTS

FLUSHED TOOL DURING FINAL FLOW PERIOD.  
SLID TOOL 6 FT. TO BOTTOM AFTER TOOL OPENED.

COMPANY : HONEY OIL COMPANY INC.  
 WELL : #1  
 GAUGE # : 11018  
 DATE : 6/ 7/90

FIELD : BENOIT  
 JOB # : 16606  
 DEPTH : 3390  
 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	11:10: 0	0.000	55.000	110.00	0.000
3	11:14:59	0.083	55.000	110.00	0.000
4	11:20: 0	0.167	55.000	110.00	0.000
5	11:25: 0	0.250	55.000	110.00	0.000
6	11:29:59	0.333	55.000	110.00	0.000
7	11:35: 0	0.417	55.000	110.00	0.000
8	11:40: 0	0.500	55.000	110.00	0.000
INITIAL SHUT-IN PERIOD					
9	11:43: 0	0.550	208.000	110.00	153.000
10	11:46: 0	0.600	477.000	110.00	269.000
11	11:49: 0	0.650	661.000	110.00	184.000
12	11:52: 0	0.700	765.000	110.00	104.000
13	11:55: 0	0.750	842.000	110.00	77.000
14	11:58: 0	0.800	897.000	110.00	55.000
15	12: 1: 0	0.850	937.000	110.00	40.000
16	12: 4: 0	0.900	972.000	110.00	35.000
17	12: 7: 0	0.950	1000.000	110.00	28.000
18	12:10: 0	1.000	1022.000	110.00	22.000
FINAL FLOW PERIOD					
19	12:11: 0	1.017	61.000	110.00	-961.000
20	12:14:59	1.083	61.000	110.00	0.000
21	12:20: 0	1.167	69.000	110.00	8.000
22	12:25: 0	1.250	67.000	110.00	-2.000
23	12:29:59	1.333	66.000	110.00	-1.000
24	12:35: 0	1.417	66.000	110.00	0.000
25	12:40: 0	1.500	66.000	110.00	0.000
FINAL SHUT-IN PERIOD					
26	12:43: 0	1.550	67.000	110.00	1.000
27	12:46: 0	1.600	226.000	110.00	159.000
28	12:49: 0	1.650	460.000	110.00	234.000
29	12:52: 0	1.700	594.000	110.00	134.000
30	12:55: 0	1.750	692.000	110.00	98.000
31	12:58: 0	1.800	757.000	110.00	65.000
32	13: 1: 0	1.850	800.000	110.00	43.000
33	13: 4: 0	1.900	833.000	110.00	33.000
34	13: 7: 0	1.950	864.000	110.00	31.000
35	13:10: 0	2.000	891.000	110.00	27.000

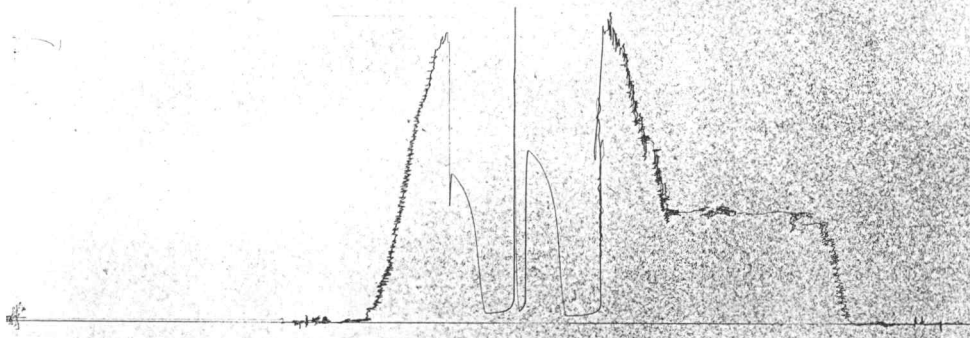
WESTERN TESTING CO. INC.

13629

KT 1616

Honey oil  
DST 1

O

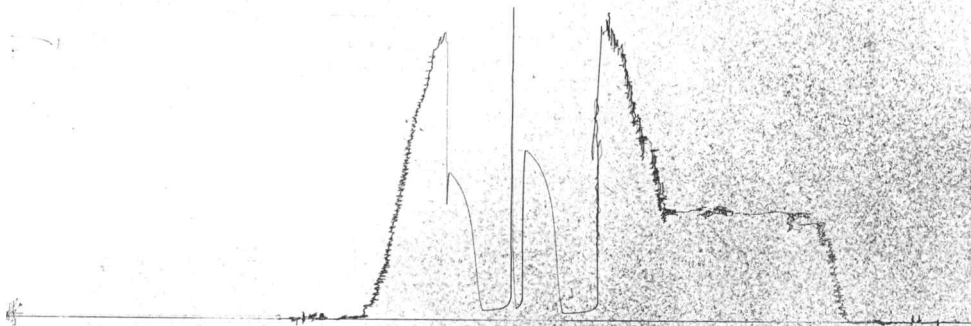


13629

KT Helde

Honey oil  
DST 1

O





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 16607

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

Elevation 2127 BL Formation LANSI Eff. Pay Ft.

District WAKEENEY Date 7-6-90 Customer Order No.

COMPANY NAME Honey Oil Co, Inc.

ADDRESS 401 EAST Douglas - Suite 505 - Wichita, KS 67202

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

Mail Invoice To Duke Drilling Co. No. Copies Requested Reg

Co. Name Address BENOIT #1 No. Copies Requested Reg

Mail Charts To Honey Oil Co. Address BENOIT #1 No. Copies Requested Reg

Formation Test No. 2 Interval Tested From 3403 ft. to 3430 ft. Total Depth 3430 ft.

Packer Depth 3398 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3403 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3421 ft. Recorder Number 11018 Cap. 4425

Bottom Recorder Depth (Outside) 3424 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 43 Weight Pipe Length I. D. in.

Weight 9.4 Water Loss 11.0 cc. Drill Pipe Length 3233 I. D. 3.8 in.

Chlorides 900 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 27 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 in.

Blow: WEAK - 1/2" in Bucket T.F.F.P.

WEAK - SURFACE Blow thru F.F.P.

Recovered 215 ft. of Watery mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides 38,000 P.P.M. Sample Jars used 1 Remarks:

Time On Location 9:30 A.M. Time Pick Up Tool 10:00 A.M. Time Off Location 4:30 A.M.

Time Set Packer(s) 11:25 A.M. Time Started Off Bottom 2:10 A.M. Maximum Temperature 110

Initial Hydrostatic Pressure (A) 1713 P.S.I.

Initial Flow Period (B) 30 Minutes 33 P.S.I. to (C) 77 P.S.I.

Initial Closed In Period (D) 45 Minutes 1085 P.S.I.

Final Flow Period (E) 45 Minutes 100 P.S.I. to (F) 122 P.S.I.

Final Closed In Period (G) 45 Minutes 1052 P.S.I.

Final Hydrostatic Pressure (H) 1691 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: [Signature] Thank you [Signature]

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes 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

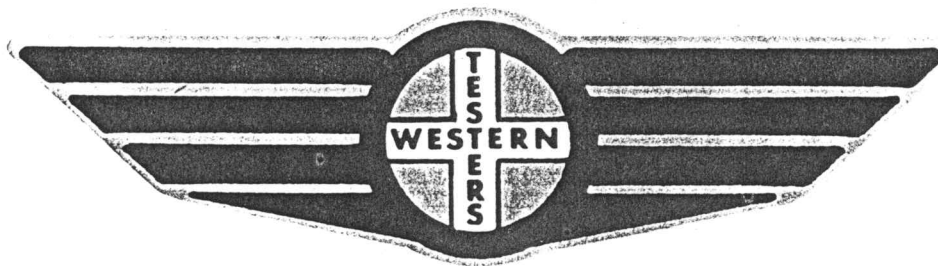
Date 7-6-90 Test Ticket No. 16607  
 Recorder No. 11018 Capacity 445 Location \_\_\_\_\_ Ft.  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1730</u>	P.S.I.	<u>11:25 P</u>	M
B First Initial Flow Pressure	<u>53</u>	P.S.I.	<u>20</u>	Mins. <u>20</u> Mins.
C First Final Flow Pressure	<u>95</u>	P.S.I.	<u>45</u>	Mins. <u>25</u> Mins.
D Initial Closed-in Pressure	<u>1098</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
E Second Initial Flow Pressure	<u>119</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
F Second Final Flow Pressure	<u>136</u>	P.S.I.		
G Final Closed-in Pressure	<u>1054</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1727</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>53</u>	0	<u>95</u>	0	<u>119</u>	0	<u>136</u>
P 2 5	<u>57</u>	3	<u>769</u>	5	<u>5</u>	3	<u>747</u>
P 3 10	<u>64</u>	6	<u>876</u>	10	<u>5</u>	6	<u>847</u>
P 4 15	<u>75</u>	9	<u>921</u>	15	<u>119</u>	9	<u>892</u>
P 5 20	<u>82</u>	12	<u>968</u>	20	<u>119</u>	12	<u>928</u>
P 6 25	<u>90</u>	15	<u>992</u>	25	<u>122</u>	15	<u>954</u>
P 7 30	<u>95</u>	18	<u>1012</u>	30	<u>126</u>	18	<u>970</u>
P 8 35		21	<u>1030</u>	35	<u>130</u>	21	<u>987</u>
P 9 40		24	<u>1044</u>	40	<u>132</u>	24	<u>1000</u>
P10 45		27	<u>1054</u>	45	<u>136</u>	27	<u>1014</u>
P11 50		30	<u>1067</u>	50		30	<u>1020</u>
P12 55		33	<u>1075</u>	55		33	<u>1029</u>
P13 60		36	<u>1082</u>	60		36	<u>1034</u>
P14 65		39	<u>1090</u>	65		39	<u>1042</u>
P15 70		42	<u>1095</u>	70		42	<u>1050</u>
P16 75		45	<u>1098</u>	75		45	<u>1056</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

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 7-6-90 TICKET : 16607  
CUSTOMER : HONEY OIL COMPANY INC. LEASE : BENOIT  
WELL : #1 TEST: 2 GEOLOGIST : PRIEST  
ELEVATION : 2127 GL FORMATION : LANSING  
SECTION : 11 TOWNSHIP : 7S  
RANGE : 21W COUNTY : GRAHAM STATE : KANSAS  
GAUGE SN# : 11018 RANGE : 4425 CLOCK : 12

INTERVAL FROM : 3403 TO : 3430 TOTAL DEPTH : 3430  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3398 SIZE : 6.75  
PACKER DEPTH : 3403 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : DUKE #4  
MUD TYPE : CHEMICAL VISCOSITY : 43  
WEIGHT : 9.4 WATER LOSS (CC) : 11.0  
CHLORIDES (PPM) : 900  
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 : 3233 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 27 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 : 1/2 INCH IN BUCKET.  
BLOW COMMENT #3 : FINAL FLOW PEIROD WEAK SURFACE BLOW THROUGHOUT.  
BLOW COMMENT #4 :

RECOVERED : 215 FT OF: WATERY MUD  
RECOVERED : 0 FT OF: CHLORIDES 38000 P.P.M.

Total Barrels Fluid = 1.62  
Total Fluid Prod Rate = 31.04 BFPD  
Indicated Wtr Rate = 12.42 BWPD

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

SET PACKER(S) : 11:25 P.M.

TIME STARTED OFF BOTTOM : 2:10 A.M.

WELL TEMPERATURE : 110

INITIAL HYDROSTATIC PRESSURE

(A) 1730

INITIAL FLOW PERIOD MIN: 30

(B) 53 PSI TO (C) : 95

INITIAL CLOSED IN PERIOD MIN: 45

(D) 1098

FINAL FLOW PERIOD MIN: 45

(E) 119 PSI TO (F) : 136

FINAL CLOSED IN PERIOD MIN: 45

(G) 1056

FINAL HYDROSTATIC PRESSURE

(H) 1727

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
-----

COMPANY : HONEY OIL COMPANY INC.  
RIG : GRAHAM-KANSAS  
FIELD : BENOIT  
WELL : #1  
DATE : 7-6-90  
GAUGE NO : 11018

OPERATIONAL COMMENTS

COMPANY : HONEY OIL COMPANY INC.  
 WELL : #1  
 GAUGE # : 11018  
 DATE : 6/ 7/90

FIELD : BENOIT  
 JOB # : 16607  
 DEPTH : 3430  
 TEST :

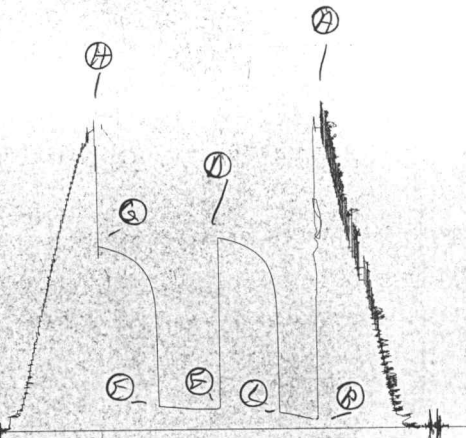
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	11:25: 0	0.000	53.000	110.00	0.000
INITIAL FLOW PERIOD					
2	11:25: 0	0.000	53.000	110.00	0.000
3	11:29:59	0.083	57.000	110.00	4.000
4	11:35: 0	0.167	64.000	110.00	7.000
5	11:40: 0	0.250	75.000	110.00	11.000
6	11:44:59	0.333	82.000	110.00	7.000
7	11:50: 0	0.417	90.000	110.00	8.000
8	11:55: 0	0.500	95.000	110.00	5.000
INITIAL SHUT-IN PERIOD					
9	11:58: 0	0.550	769.000	110.00	674.000
10	12: 1: 0	0.600	876.000	110.00	107.000
11	12: 4: 0	0.650	931.000	110.00	55.000
12	12: 7: 0	0.700	968.000	110.00	37.000
13	12:10: 0	0.750	993.000	110.00	25.000
14	12:13: 0	0.800	1013.000	110.00	20.000
15	12:16: 0	0.850	1030.000	110.00	17.000
16	12:19: 0	0.900	1044.000	110.00	14.000
17	12:22: 0	0.950	1056.000	110.00	12.000
18	12:25: 0	1.000	1067.000	110.00	11.000
19	12:28: 0	1.050	1075.000	110.00	8.000
20	12:31: 0	1.100	1082.000	110.00	7.000
21	12:34: 0	1.150	1090.000	110.00	8.000
22	12:37: 0	1.200	1095.000	110.00	5.000
23	12:40: 0	1.250	1098.000	110.00	3.000
FINAL FLOW PERIOD					
24	12:41: 0	1.267	119.000	110.00	-979.000
25	12:44:59	1.333	119.000	110.00	0.000
26	12:50: 0	1.417	119.000	110.00	0.000
27	12:55: 0	1.500	119.000	110.00	0.000
28	12:59:59	1.583	119.000	110.00	0.000
29	13: 5: 0	1.667	123.000	110.00	4.000
30	13:10: 0	1.750	126.000	110.00	3.000
31	13:14:59	1.833	130.000	110.00	4.000
32	13:20: 0	1.917	133.000	110.00	3.000
33	13:25: 0	2.000	136.000	110.00	3.000
FINAL SHUT-IN PERIOD					
34	13:28: 0	2.050	747.000	110.00	611.000
35	13:31: 0	2.100	847.000	110.00	100.000
36	13:34: 0	2.150	893.000	110.00	46.000
37	13:37: 0	2.200	928.000	110.00	35.000
38	13:40: 0	2.250	954.000	110.00	26.000
39	13:43: 0	2.300	970.000	110.00	16.000
40	13:46: 0	2.350	987.000	110.00	17.000
41	13:49: 0	2.400	1000.000	110.00	13.000
42	13:52: 0	2.450	1011.000	110.00	11.000
43	13:55: 0	2.500	1020.000	110.00	9.000
44	13:58: 0	2.550	1029.000	110.00	9.000
45	14: 1: 0	2.600	1036.000	110.00	7.000
46	14: 4: 0	2.650	1043.000	110.00	7.000
47	14: 7: 0	2.700	1050.000	110.00	7.000
48	14:10: 0	2.750	1056.000	110.00	6.000

11018

K+ 16607

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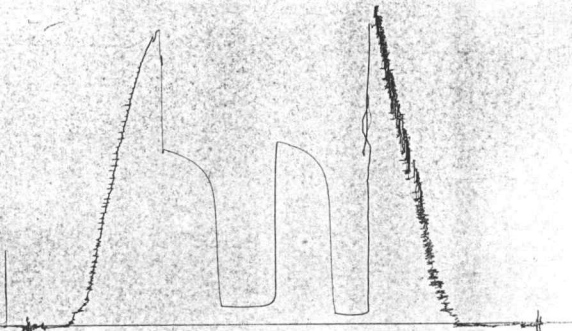


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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 16608

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

Elevation 2127 GL Formation LAMS Eff. Pay Ft.

District WAKEENEY Date 7-7-90 Customer Order No.

COMPANY NAME Honey Oil Co. INC.
ADDRESS 401 EAST Douglas - Suite 505 - Wichita, KS 67202
LEASE AND WELL NO. Behoit #1 COUNTY GRAHAM STATE KS Sec. 11 Twp. 7S Rge. 21W
Mail Invoice To Duke Drilling Co. No. Copies Requested Reg
Mail Charts To Honey Oil Co. No. Copies Requested Reg

Formation Test No. 3 Interval Tested From 3430 ft. to 3466 ft. Total Depth 3466 ft.
Packer Depth 3425 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3430 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Top Recorder Depth (Inside) 3457 ft. Recorder Number 11018 Cap. 4425
Bottom Recorder Depth (Outside) 3460 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 43 Weight Pipe Length I. D. in.
Weight 9.4900 Water Loss 11.0 cc. Drill Pipe Length 3260 I. D. 3.8 in.
Chlorides 900 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make - Serial Number Anchor Length 36 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 in.

Blow: WEAK - SURFACE Blow Both F.p.

Recovered 250 ft. of Watery mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Chlorides 47,000 P.P.M. Sample Jars used 1 Remarks: 100 W

Time On Location 10:30 A.M. Time Pick Up Tool 10:45 A.M. Time Off Location 6:00 A.M.
Time Set Packer(s) 12:05 A.M. Time Started Off Bottom 3:50 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) 88 P.S.I.
Initial Closed In Period Minutes 45 (D) 853 P.S.I.
Final Flow Period Minutes 60 (E) 100 P.S.I. to (F) 144 P.S.I.
Final Closed In Period Minutes 90 (G) 853 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 Tom Priest
Signature of Customer or his authorized representative

Western Representative Dave Sloan
Thank you

FIELD INVOICE

- Open Hole Test \$ 2
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 7-7-90 Recorder No. 11018 Capacity 4425 Test Ticket No. 16608 Location \_\_\_\_\_ Ft.  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature 110 °F

Point	Pressure	P.S.I.	Open Tool	Time Given	Mins.	Time Computed	Mins.
A Initial Hydrostatic Mud	<u>1769</u>	P.S.I.	Open Tool	<u>12:05 P</u>			
B First Initial Flow Pressure	<u>50</u>	P.S.I.	First Flow Pressure	<u>30</u>	<u>30</u>		
C First Final Flow Pressure	<u>99</u>	P.S.I.	Initial Closed-in Pressure	<u>45</u>	<u>48</u>		
D Initial Closed-in Pressure	<u>872</u>	P.S.I.	Second Flow Pressure	<u>60</u>	<u>60</u>		
E Second Initial Flow Pressure	<u>122</u>	P.S.I.	Final Closed-in Pressure	<u>90</u>	<u>90</u>		
F Second Final Flow Pressure	<u>157</u>	P.S.I.					
G Final Closed-in Pressure	<u>869</u>	P.S.I.					
H Final Hydrostatic Mud	<u>1744</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>99</u>	0	<u>122</u>	0	<u>157</u>
P 2 5	<u>51</u>	3	<u>122</u>	5	<u>122</u>	3	<u>168</u>
P 3 10	<u>61</u>	6	<u>132</u>	10	<u>122</u>	6	<u>181</u>
P 4 15	<u>72</u>	9	<u>142</u>	15	<u>122</u>	9	<u>196</u>
P 5 20	<u>82</u>	12	<u>157</u>	20	<u>124</u>	12	<u>211</u>
P 6 25	<u>92</u>	15	<u>166</u>	25	<u>128</u>	15	<u>224</u>
P 7 30	<u>99</u>	18	<u>178</u>	30	<u>132</u>	18	<u>235</u>
P 8 35		21	<u>184</u>	35	<u>138</u>	21	<u>249</u>
P 9 40		24	<u>190</u>	40	<u>142</u>	24	<u>261</u>
P10 45		27	<u>194</u>	45	<u>146</u>	27	<u>274</u>
P11 50		30	<u>197</u>	50	<u>150</u>	30	<u>284</u>
P12 55		33	<u>201</u>	55	<u>152</u>	33	<u>295</u>
P13 60		36	<u>205</u>	60	<u>157</u>	36	<u>306</u>
P14 65		39	<u>207</u>	65		39	<u>314</u>
P15 70		42	<u>209</u>	70		42	<u>324</u>
P16 75		45	<u>211</u>	75		45	<u>330</u>
P17 80		48	<u>212</u>	80		48	<u>343</u>
P18 85		51		85		51	<u>345</u>
P19 90		54		90		54	<u>347</u>
P20 95		57		95		57	<u>351</u>
100		60		100		60	<u>352</u>

**WESTERN TESTING CO., INC.**  
**Pressure Data**

*11608*

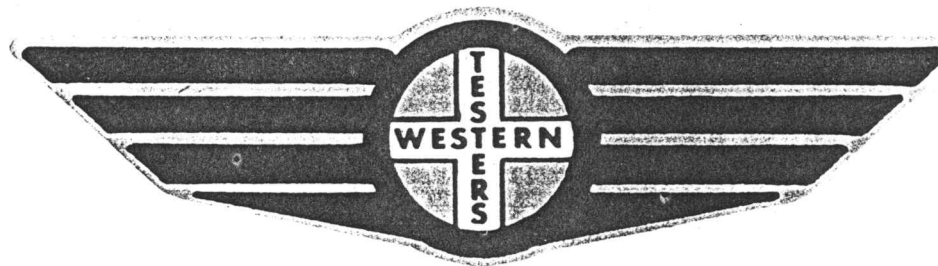
Date \_\_\_\_\_ Test Ticket No. \_\_\_\_\_  
 Recorder No. \_\_\_\_\_ Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft.  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud _____ P.S.I.		Open Tool		M _____
B First Initial Flow Pressure _____ P.S.I.		First Flow Pressure		Mins. _____ Mins. _____
C First Final Flow Pressure _____ P.S.I.		Initial Closed-in Pressure		Mins. _____ Mins. _____
D Initial Closed-in Pressure _____ P.S.I.		Second Flow Pressure		Mins. _____ Mins. _____
E Second Initial Flow Pressure _____ P.S.I.		Final Closed-in Pressure		Mins. _____ Mins. _____
F Second Final Flow Pressure _____ P.S.I.				
G Final Closed-in Pressure _____ P.S.I.				
H Final Hydrostatic Mud _____ 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.
P 1 105	_____	63	_____	63	<i>855</i>
P 2 110	_____	66	_____	66	<i>857</i>
P 3 115	_____	69	_____	69	<i>859</i>
P 4 120	_____	72	_____	72	<i>861</i>
P 5 125	_____	75	_____	75	<i>862</i>
P 6 130	_____	78	_____	78	<i>865</i>
P 7 135	_____	81	_____	81	<i>866</i>
P 8 140	_____	84	_____	84	<i>867</i>
P 9 145	_____	87	_____	87	<i>867</i>
P10 150	_____	90	_____	90	<i>867</i>
P11 155	_____	93	_____	93	_____
P12 160	_____	96	_____	96	_____
P13 165	_____	99	_____	99	_____
P14 170	_____	102	_____	102	_____
P15 175	_____	105	_____	105	_____
P16 180	_____	108	_____	103	_____
P17 185	_____	111	_____	111	_____
P18 190	_____	114	_____	114	_____
P19 195	_____	117	_____	117	_____
P20 200	_____	120	_____	120	_____

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 7-7-90 TICKET : 16608  
CUSTOMER : HONEY OIL COMPANY INC. LEASE : BENOIT  
WELL : #1 TEST: 3 GEOLOGIST : PRIEST  
ELEVATION : 2127 GL FORMATION : LANSING  
SECTION : 11 TOWNSHIP : 7S  
RANGE : 21W COUNTY : GRAHAM STATE : KANSAS  
GAUGE SN# : 11018 RANGE : 4425 CLOCK : 12

INTERVAL FROM : 3430 TO : 3466 TOTAL DEPTH : 3466  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3425 SIZE : 6.75  
PACKER DEPTH : 3430 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : DUKE #4  
MUD TYPE : CHEMICAL VISCOSITY : 43  
WEIGHT : 9.4 WATER LOSS (CC) : 11.0  
CHLORIDES (PPM) : 900  
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 : 3260 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 36 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 : WEAK SURFACE BLOW DURING BOTH FLOW PERIODS.  
BLOW COMMENT #2 :  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 250 FT OF: WATERY MUD  
RECOVERED : 0 FT OF: CHLORIDES 47000 P.P.M.

Total Barrels Fluid = 2.11  
Total Fluid Prod Rate = 33.73 BFPD  
Indicated Wtr Rate = 13.49 BWPD

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

SET PACKER(S) : 12:05 P.M.                      TIME STARTED OFF BOTTOM : 3:50 P.M.  
WELL TEMPERATURE : 110  
INITIAL HYDROSTATIC PRESSURE                      (A) 1769  
INITIAL FLOW PERIOD                      MIN: 30                      (B) 50                      PSI TO (C) : 99  
INITIAL CLOSED IN PERIOD                      MIN: 48                      (D) 873  
FINAL FLOW PERIOD                      MIN: 60                      (E) 122                      PSI TO (F) : 157  
FINAL CLOSED IN PERIOD                      MIN: 90                      (G) 867  
FINAL HYDROSTATIC PRESSURE                      (H) 1742

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HONEY OIL COMPANY INC.  
RIG : GRAHAM-KANSAS  
FIELD : BENOIT  
WELL : #1  
DATE : 7-7-90  
GAUGE NO : 11018

OPERATIONAL COMMENTS

COMPANY : HONEY OIL COMPANY INC.  
 WELL : #1  
 GAUGE # : 11018  
 DATE : 7/ 7/90

FIELD : BENOIT  
 JOB # : 16608  
 DEPTH : 3466  
 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: 5: 0	0.000	50.000	110.00	0.000
3	12: 9:59	0.083	51.000	110.00	1.000
4	12:15: 0	0.167	61.000	110.00	10.000
5	12:20: 0	0.250	72.000	110.00	11.000
6	12:24:59	0.333	82.000	110.00	10.000
7	12:30: 0	0.417	92.000	110.00	10.000
8	12:35: 0	0.500	99.000	110.00	7.000
INITIAL SHUT-IN PERIOD					
9	12:38: 0	0.550	737.000	110.00	638.000
10	12:41: 0	0.600	782.000	110.00	45.000
11	12:44: 0	0.650	803.000	110.00	21.000
12	12:47: 0	0.700	819.000	110.00	16.000
13	12:50: 0	0.750	826.000	110.00	7.000
14	12:53: 0	0.800	838.000	110.00	12.000
15	12:56: 0	0.850	842.000	110.00	4.000
16	12:59: 0	0.900	850.000	110.00	8.000
17	13: 2: 0	0.950	854.000	110.00	4.000
18	13: 5: 0	1.000	857.000	110.00	3.000
19	13: 8: 0	1.050	861.000	110.00	4.000
20	13:11: 0	1.100	865.000	110.00	4.000
21	13:14: 0	1.150	867.000	110.00	2.000
22	13:17: 0	1.200	869.000	110.00	2.000
23	13:20: 0	1.250	871.000	110.00	2.000
24	13:23: 0	1.300	873.000	110.00	2.000
FINAL FLOW PERIOD					
25	13:24: 0	1.317	122.000	110.00	-751.000
26	13:27:59	1.383	122.000	110.00	0.000
27	13:33: 0	1.467	122.000	110.00	0.000
28	13:38: 0	1.550	122.000	110.00	0.000
29	13:42:59	1.633	124.000	110.00	2.000
30	13:48: 0	1.717	128.000	110.00	4.000
31	13:53: 0	1.800	133.000	110.00	5.000
32	13:57:59	1.883	138.000	110.00	5.000
33	14: 3: 0	1.967	142.000	110.00	4.000
34	14: 8: 0	2.050	146.000	110.00	4.000
35	14:12:59	2.133	150.000	110.00	4.000
36	14:18: 0	2.217	153.000	110.00	3.000
37	14:23: 0	2.300	157.000	110.00	4.000
FINAL SHUT-IN PERIOD					
38	14:26: 0	2.350	688.000	110.00	531.000
39	14:28:59	2.400	731.000	110.00	43.000
40	14:32: 0	2.450	756.000	110.00	25.000
41	14:35: 0	2.500	771.000	110.00	15.000
42	14:38: 0	2.550	784.000	110.00	13.000
43	14:41: 0	2.600	795.000	110.00	11.000
44	14:43:59	2.650	801.000	110.00	6.000
45	14:47: 0	2.700	809.000	110.00	8.000
46	14:50: 0	2.750	814.000	110.00	5.000
47	14:53: 0	2.800	821.000	110.00	7.000
48	14:56: 0	2.850	825.000	110.00	4.000

COMPANY : HONEY OIL COMPANY INC.  
WELL : #1  
GAUGE # : 11018  
DATE : 7/ 7/90

FIELD : BENOIT  
JOB # : 16608  
DEPTH : 3466  
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	14:59: 0	2.900	830.000	110.00	5.000
50	15: 1:59	2.950	834.000	110.00	4.000
51	15: 5: 0	3.000	836.000	110.00	2.000
52	15: 8: 0	3.050	840.000	110.00	4.000
53	15:11: 0	3.100	843.000	110.00	3.000
54	15:14: 0	3.150	845.000	110.00	2.000
55	15:16:59	3.200	847.000	110.00	2.000
56	15:20: 0	3.250	851.000	110.00	4.000
57	15:23: 0	3.300	853.000	110.00	2.000
58	15:26: 0	3.350	855.000	110.00	2.000
59	15:29: 0	3.400	857.000	110.00	2.000
60	15:31:59	3.450	859.000	110.00	2.000
61	15:35: 0	3.500	861.000	110.00	2.000
62	15:38: 0	3.550	863.000	110.00	2.000
63	15:41: 0	3.600	865.000	110.00	2.000
64	15:44: 0	3.650	866.000	110.00	1.000
65	15:46:59	3.700	867.000	110.00	1.000
66	15:50: 0	3.750	867.000	110.00	0.000
67	15:53: 0	3.800	867.000	110.00	0.000

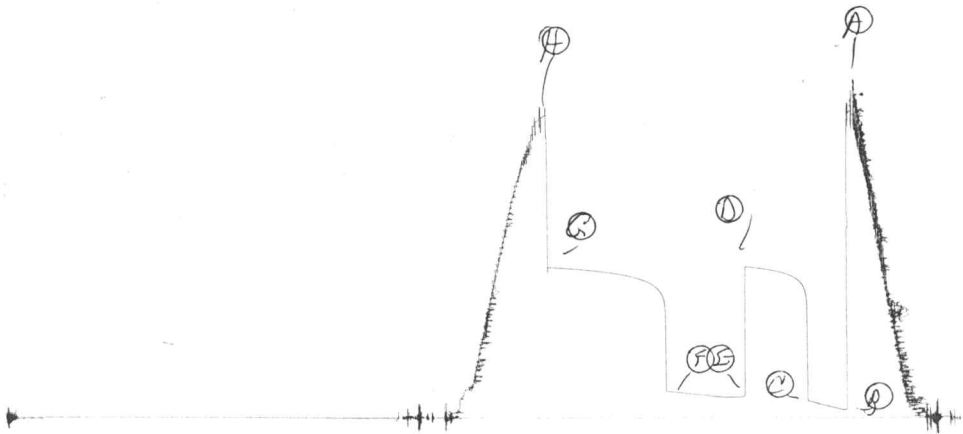
WESTERN TESTING CO. INC.

11018

KT. Kelds

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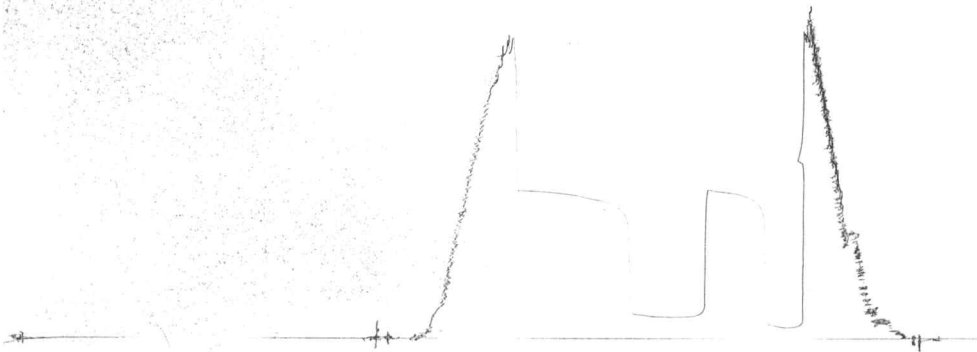


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Honey  
PST 3

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 16609

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

Elevation 2127GL Formation LAHS Eff. Pay Ft.

District WAKEENY Date 7-8-90 Customer Order No.

COMPANY NAME Honey Oil Co., INC.

ADDRESS 401 EAST Douglas - Suite 505 - Wichita, KS. 67202

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

Mail Invoice To Honey Oil Co. Co. Name No. Copies Requested Reg

Mail Chart To Honey Oil Co. Address DOST New call to SATY No. Copies Requested Reg

Formation Test No. 4 Interval Tested From 3490 ft. to 3580 ft. Total Depth 3580 ft.

Packer Depth 3485 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3490 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3508 ft. Recorder Number 11018 Cap. 4425

Bottom Recorder Depth (Outside) 3571 ft. Recorder Number 13629 Cap. 4425

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Duke #4 Drill Collar Length 150 I. D. 2.12 in.

Mud Type Chem Viscosity 46 Weight Pipe Length I. D. in.

Weight 9.5 Water Loss 10.2 cc. Drill Pipe Length 3320 I. D. 3.8 in.

Chlorides 1100 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OP in.

Jars: Make Serial Number Anchor Length 90 ft. Size 5 1/2 OP 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-dead 5 min. I.F.P. NONE - F.F.P.

Recovered 5 ft. of Drig mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

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

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

Time Set Packer(s) 7:45 A.M. Time Started Off Bottom 9:45 A.M. P.M. Maximum Temperature 112

Initial Hydrostatic Pressure (A) 1768 P.S.I.

Initial Flow Period (B) 30 P.S.I. to (C) 22 P.S.I.

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

Final Flow Period (E) 30 P.S.I. to (F) 33 P.S.I.

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

Final Hydrostatic Pressure (H) 1746 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 Tim Priest Signature of Customer or his authorized representative

Western Representative Dave Sloan + ASO Thank you

FIELD INVOICE

- Open Hole Test \$
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

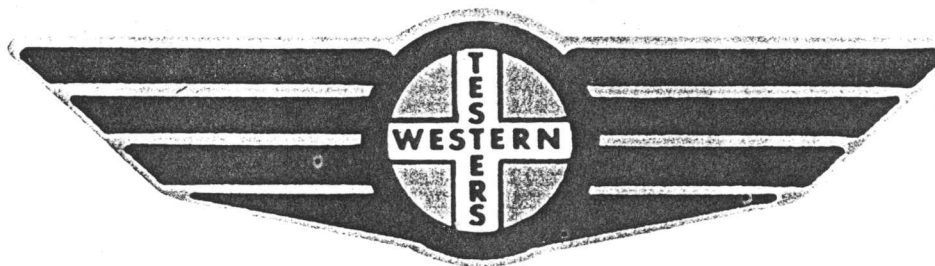
Date 7-8-50 Recorder No. 11018 Capacity 4425 Test Ticket No. 16609  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature 112 °F

Point	Pressure		Time Glyen	Time Computed
A Initial Hydrostatic Mud	<u>1771</u>	P.S.I.	<u>7:45 A</u>	M
B First Initial Flow Pressure	<u>43</u>	P.S.I.	<u>50</u>	Mins. <u>50</u> Mins.
C First Final Flow Pressure	<u>43</u>	P.S.I.	<u>50</u>	Mins. <u>50</u> Mins.
D Initial Closed-in Pressure	<u>53</u>	P.S.I.	<u>50</u>	Mins. <u>50</u> Mins.
E Second Initial Flow Pressure	<u>49</u>	P.S.I.	<u>50</u>	Mins. <u>50</u> Mins.
F Second Final Flow Pressure	<u>49</u>	P.S.I.	<u>50</u>	Mins. <u>50</u> Mins.
G Final Closed-in Pressure	<u>84</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1766</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>43</u>	0	<u>43</u>	0	<u>49</u>	0	<u>49</u>
P 2 5	<u>43</u>	3	<u>43</u>	5	<u>49</u>	3	<u>49</u>
P 3 10	<u>43</u>	6	<u>43</u>	10	<u>49</u>	6	<u>49</u>
P 4 15	<u>43</u>	9	<u>43</u>	15	<u>49</u>	9	<u>49</u>
P 5 20	<u>43</u>	12	<u>43</u>	20	<u>49</u>	12	<u>50</u>
P 6 25	<u>43</u>	15	<u>47</u>	25	<u>49</u>	15	<u>50</u>
P 7 30	<u>43</u>	18	<u>52</u>	30	<u>49</u>	18	<u>61</u>
P 8 35	<u>43</u>	21	<u>59</u>	35	<u>49</u>	21	<u>67</u>
P 9 40	<u>43</u>	24	<u>66</u>	40	<u>49</u>	24	<u>71</u>
P10 45	<u>43</u>	27	<u>70</u>	45	<u>49</u>	27	<u>77</u>
P11 50	<u>43</u>	30	<u>83</u>	50	<u>49</u>	30	<u>84</u>
P12 55	<u>43</u>	33	<u>93</u>	55	<u>49</u>	33	<u>84</u>
P13 60	<u>43</u>	36	<u>93</u>	60	<u>49</u>	36	<u>84</u>
P14 65	<u>43</u>	39	<u>93</u>	65	<u>49</u>	39	<u>84</u>
P15 70	<u>43</u>	42	<u>93</u>	70	<u>49</u>	42	<u>84</u>
P16 75	<u>43</u>	45	<u>93</u>	75	<u>49</u>	45	<u>84</u>
P17 80	<u>43</u>	48	<u>93</u>	80	<u>49</u>	48	<u>84</u>
P18 85	<u>43</u>	51	<u>93</u>	85	<u>49</u>	51	<u>84</u>
P19 90	<u>43</u>	54	<u>93</u>	90	<u>49</u>	54	<u>84</u>
P20 95	<u>43</u>	57	<u>93</u>	95	<u>49</u>	57	<u>84</u>
100	<u>43</u>	60	<u>93</u>	100	<u>49</u>	60	<u>84</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 : 7-8-90 TICKET : 16609  
CUSTOMER : HONEY OIL COMPANY INC. LEASE : BENOIT  
WELL : #1 TEST: 4 GEOLOGIST : PRIEST  
ELEVATION : 2127 GL FORMATION : LANSING  
SECTION : 11 TOWNSHIP : 7S  
RANGE : 21W COUNTY : GRAHAM STATE : KANSAS  
GAUGE SN# : 11018 RANGE : 4425 CLOCK : 12

INTERVAL FROM : 3490 TO : 3580 TOTAL DEPTH : 3580  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3485 SIZE : 6.75  
PACKER DEPTH : 3490 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : DUKE #4  
MUD TYPE : CHEMICAL VISCOSITY : 46  
WEIGHT : 9.5 WATER LOSS (CC) : 10.2  
CHLORIDES (PPM) : 1100  
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 : 3320 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 90 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 5 MINUTES.  
BLOW COMMENT #3 : FINAL FLOW PERIOD NO BLOW.  
BLOW COMMENT #4 :

RECOVERED : 5 FT OF: DRLG. MUD

Total Barrels Fluid = 0.02  
Total Fluid Prod Rate = 0.56 BFPD  
Indicated Wtr Rate = 0.06 BWPD

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

SET PACKER(S) : 7:45 A.M.

TIME STARTED OFF BOTTOM : 9:45 A.M.

WELL TEMPERATURE : 112

INITIAL HYDROSTATIC PRESSURE

(A) 1771

INITIAL FLOW PERIOD MIN: 30

(B) 43 PSI TO (C) : 43

INITIAL CLOSED IN PERIOD MIN: 33

(D) 93

FINAL FLOW PERIOD MIN: 30

(E) 49 PSI TO (F) : 49

FINAL CLOSED IN PERIOD MIN: 30

(G) 84

FINAL HYDROSTATIC PRESSURE

(H) 1766

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
-----

COMPANY : HONEY OIL COMPANY INC.  
RIG : GRAHAM-KANSAS  
FIELD : BENOIT  
WELL : #1  
DATE : 7-8-90  
GAUGE NO : 11018

OPERATIONAL COMMENTS

COMPANY : HONEY OIL COMPANY INC.  
WELL : #1  
GAUGE # : 11018  
DATE : 8/ 7/90

FIELD : BENOIT  
JOB # : 16609  
DEPTH : 3580  
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	7:45: 0	0.000	43.000	112.00	0.000
3	7:49:59	0.083	43.000	112.00	0.000
4	7:55: 0	0.167	43.000	112.00	0.000
5	8: 0: 0	0.250	43.000	112.00	0.000
6	8: 4:59	0.333	43.000	112.00	0.000
7	8:10: 0	0.417	43.000	112.00	0.000
8	8:15: 0	0.500	43.000	112.00	0.000
INITIAL SHUT-IN PERIOD					
9	8:18: 0	0.550	43.000	112.00	0.000
10	8:21: 0	0.600	43.000	112.00	0.000
11	8:24: 0	0.650	43.000	112.00	0.000
12	8:27: 0	0.700	43.000	112.00	0.000
13	8:30: 0	0.750	47.000	112.00	4.000
14	8:33: 0	0.800	53.000	112.00	6.000
15	8:36: 0	0.850	59.000	112.00	6.000
16	8:39: 0	0.900	66.000	112.00	7.000
17	8:42: 0	0.950	70.000	112.00	4.000
18	8:45: 0	1.000	83.000	112.00	13.000
19	8:48: 0	1.050	93.000	112.00	10.000
FINAL FLOW PERIOD					
20	8:49: 0	1.067	49.000	112.00	-44.000
21	8:52:59	1.133	49.000	112.00	0.000
22	8:58: 0	1.217	49.000	112.00	0.000
23	9: 3: 0	1.300	49.000	112.00	0.000
24	9: 7:59	1.383	49.000	112.00	0.000
25	9:13: 0	1.467	49.000	112.00	0.000
26	9:18: 0	1.550	49.000	112.00	0.000
FINAL SHUT-IN PERIOD					
27	9:21: 0	1.600	49.000	112.00	0.000
28	9:24: 0	1.650	49.000	112.00	0.000
29	9:27: 0	1.700	49.000	112.00	0.000
30	9:30: 0	1.750	50.000	112.00	1.000
31	9:33: 0	1.800	56.000	112.00	6.000
32	9:36: 0	1.850	61.000	112.00	5.000
33	9:39: 0	1.900	67.000	112.00	6.000
34	9:42: 0	1.950	71.000	112.00	4.000
35	9:45: 0	2.000	77.000	112.00	6.000
36	9:48: 0	2.050	84.000	112.00	7.000

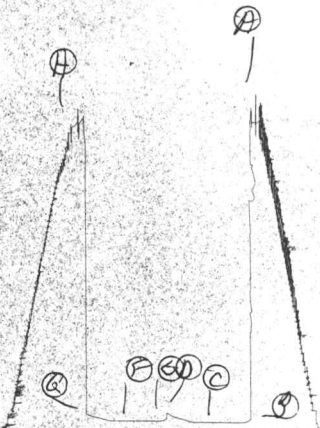
WESTERN TESTING CO. INC.

11018

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