



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 16464

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

Elevation 1876 Formation LKC F Eff. Pay — Ft.

H230 District GREAT BEND Date 7-27-90 Customer Order No. —

COMPANY NAME HUTCHINSON OIL COMPANY
ADDRESS 105 S. BROADWAY SUITE 470 WICHITA, KS. 67202

LEASE AND WELL NO. ALPERS #1 COUNTY STAFFORD STATE KS Sec. 19 Twp. 22 Rge. 12W

Mail Invoice To SAME Co. Name ALPERS #1 Address No. Copies Requested REG

Mail Charts To SAME Address No. Copies Requested REG

Formation Test No. 1 Interval Tested From 3414 ft. to 3425 ft. Total Depth 3425 ft.

Packer Depth 3414 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 3409 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3417 ft. Recorder Number 3659 Cap. 4000

Bottom Recorder Depth (Outside) 3420 ft. Recorder Number 4339 Cap. 4300

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

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

Mud Type CHEMICAL Viscosity 40 Weight Pipe Length — I. D. — in.

Weight 92 Water Loss 12.2 cc. Drill Pipe Length 3392 I. D. 3.8 in.

Chlorides 5000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 in.

Jars: Make — Serial Number — Anchor Length 11 ft. Size 5 1/2 in.

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

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

Blow: STRONG GTS in 4min

Recovered 90 ft. of MCO 50% mud 50% oil

Recovered 60 ft. of CLEAN OIL WATER CUT 5% WATER 80% oil 15% GAS

Recovered 300 ft. of CLEAN OIL WATER CUT 10% WATER 90% oil

Recovered 300 ft. of CLEAN OIL W/CUT 20% WATER 50% oil 30% GAS

Recovered 420 ft. of SALT WATER

Chlorides 75,000 P.P.M. Sample Jars used — Remarks: OIL 28 GRAVITY

5 1/2. 5 WTR

5 1/3. OIL

Time On Location 2:30 A.M. Time Pick Up Tool 400 P.M. Time Off Location 1230 A.M.

Time Set Packer(s) 540 A.M. Time Started Off Bottom 825 P.M. Maximum Temperature 110

Initial Hydrostatic Pressure (A) 1703 P.S.I.

Initial Flow Period Minutes 15 (B) 357 P.S.I. to (C) 357 P.S.I.

Initial Closed In Period Minutes 30 (D) 539 P.S.I.

Final Flow Period Minutes 60 (E) 357 P.S.I. to (F) 489 P.S.I.

Final Closed In Period Minutes 60 (G) 539 P.S.I.

Final Hydrostatic Pressure (H) 1703 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 Kandy Leon
Signature of Customer or his authorized representative

Western Representative Norman Hickel Thank You

0830

FIELD INVOICE

Open Hole Test \$ 450
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$

Date 1-27-90 Ticket _____ Company HUTCHINSON OIL CO
 Well Name and No. ALPERS #1 Dst No. 1 Interval Tested 3414-25
 County STAFFORD State KS Sec. 19 Twp. 22S Rg. 12W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
PRE FLOW					
5	10	1/2			116,000 CRPD
10	11	1/2			121,000 "
15	11	1/2			121,000 "
					121,000 "

SECOND FLOW					
5	6	1/2			86,300 CRPD
15	6	1/2			86,300 "
25	4	1/2			68,800 "
35	4	1/2			68,800 "
45	2	1/2			53,400 + 47,700
55	2	1/2			53,400 - 47,700
60	2	1/2			53,400 + 47,700

GAS BOTTLE

Serial No. 5EK082 Date Bottle Filled 7-27-90 Date to be Invoiced _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 11 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME HUTCHINSON OIL CO

Authorized by Randy Lelick

WESTERN TESTING CO., INC.

Pressure Data

Date 7-27-90 Recorder No. 2659 Capacity 4000 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature 110 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mod. <u>1713</u> P.S.I.		<u>5:40 AM</u>	
B First Initial Flow Pressure <u>349</u> P.S.I.		<u>15</u> Mins	<u>15</u> Mins
C First Final Flow Pressure <u>352</u> P.S.I.		<u>30</u> Mins	<u>30</u> Mins
D Initial Closed-in Pressure <u>536</u> P.S.I.		<u>60</u> Mins	<u>65</u> Mins
E Second Initial Flow Pressure <u>341</u> P.S.I.		<u>60</u> Mins	<u>60</u> Mins
F Second Final Flow Pressure <u>522</u> P.S.I.			
G Final Closed-in Pressure <u>538</u> P.S.I.			
H Final Hydrostatic Mod. <u>1701</u> P.S.I.			

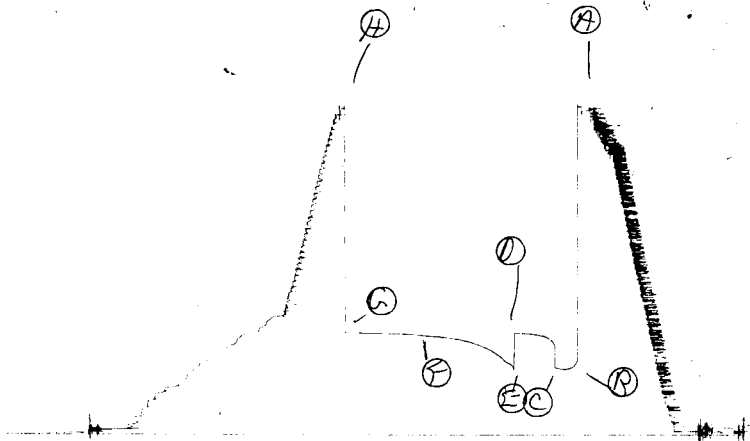
PRESSURE BREAKDOWN

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 <u>0</u>	<u>349</u>	<u>0</u>	<u>352</u>	<u>0</u>	<u>341</u>	<u>0</u>	<u>522</u>
P 2 <u>5</u>	<u>349</u>	<u>3</u>	<u>493</u>	<u>5</u>	<u>382</u>	<u>3</u>	<u>524</u>
P 3 <u>10</u>	<u>349</u>	<u>6</u>	<u>510</u>	<u>10</u>	<u>411</u>	<u>6</u>	<u>527</u>
P 4 <u>15</u>	<u>352</u>	<u>9</u>	<u>520</u>	<u>15</u>	<u>438</u>	<u>9</u>	<u>528</u>
P 5 <u>20</u>		<u>12</u>	<u>525</u>	<u>20</u>	<u>456</u>	<u>12</u>	<u>529</u>
P 6 <u>25</u>		<u>15</u>	<u>528</u>	<u>25</u>	<u>471</u>	<u>15</u>	<u>530</u>
P 7 <u>30</u>		<u>18</u>	<u>531</u>	<u>30</u>	<u>483</u>	<u>18</u>	<u>531</u>
P 8 <u>35</u>		<u>21</u>	<u>532</u>	<u>35</u>	<u>492</u>	<u>21</u>	<u>532</u>
P 9 <u>40</u>		<u>24</u>	<u>534</u>	<u>40</u>	<u>501</u>	<u>24</u>	<u>533</u>
P 10 <u>45</u>		<u>27</u>	<u>535</u>	<u>45</u>	<u>507</u>	<u>27</u>	<u>533</u>
P 11 <u>50</u>		<u>30</u>	<u>536</u>	<u>50</u>	<u>512</u>	<u>30</u>	<u>533</u>
P 12 <u>55</u>		<u>33</u>		<u>55</u>	<u>518</u>	<u>33</u>	<u>534</u>
P 13 <u>60</u>		<u>36</u>		<u>60</u>	<u>520</u>	<u>36</u>	<u>535</u>
P 14 <u>65</u>		<u>39</u>		<u>65</u>	<u>522</u>	<u>39</u>	<u>536</u>
P 15 <u>70</u>		<u>42</u>		<u>70</u>		<u>42</u>	<u>537</u>
P 16 <u>75</u>		<u>45</u>		<u>75</u>		<u>45</u>	<u>538</u>
P 17 <u>80</u>		<u>48</u>		<u>80</u>		<u>48</u>	
P 18 <u>85</u>		<u>51</u>		<u>85</u>		<u>51</u>	
P 19 <u>90</u>		<u>54</u>		<u>90</u>		<u>54</u>	
P 20 <u>95</u>		<u>57</u>		<u>95</u>		<u>57</u>	
100		60		100		60	<u>538</u>

2059
#1.

JKT 164604

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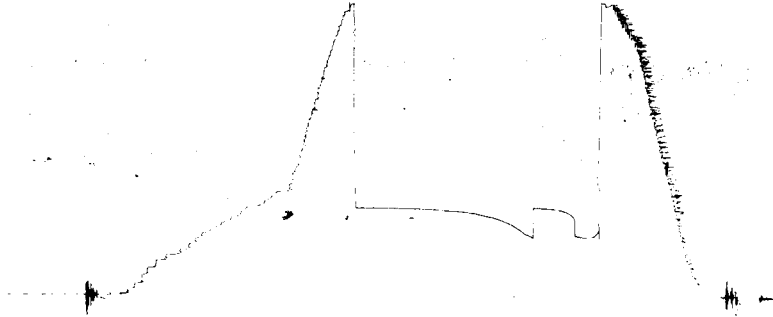


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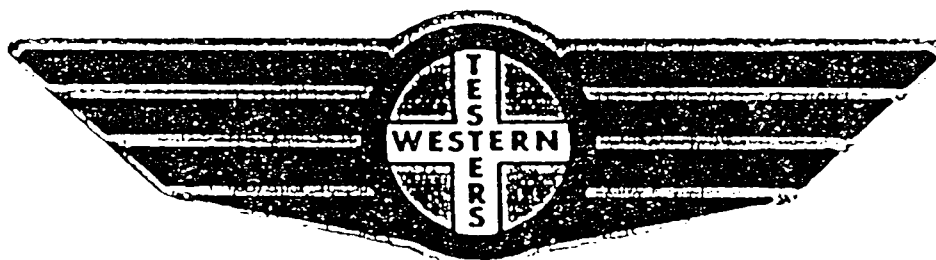
#1

KT 16464

O



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY HUTCHINSON OIL COMPANY

LEASE & WELL NO. ALPERS #1

SEC. 19 TWP. 22S RGE. 12W TEST NO. 1 DATE 7/27/90

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	7-27-90	TICKET	:	16464
CUSTOMER	:	HUTCHINSON OIL COMPANY	LEASE	:	ALPERS
WELL	:	#1 TEST: 1	GEOLOGIST	:	R. LILAK
ELEVATION	:	1876 K.B.	FORMATION	:	LOWER K.C.-F
SECTION	:	19	TOWNSHIP	:	22S
RANGE	:	12W	STATE	:	KANSAS
GAUGE SN#	:	3:659	CLOCK	:	12
		COUNTY : STAFFORD			
		RANGE : 4000			

INTERVAL FROM	:	3444	TO	:	3425	TOTAL DEPTH	:	3425
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3414	SIZE	:	6.63			
PACKER DEPTH	:	3409	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	H-30 #7	VISCOSITY	:	40
MUD TYPE	:	CHEMICAL	WATER LOSS (CC)	:	12.2
WEIGHT	:	9.2			
CHLORIDES (PPM)	:	5000	SERIAL NUMBER	:	
JARS-MAKE	:		REVERSED OUT ?	:	
DID WELL FLOW ?	:				

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3392	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	22	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	11	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 : GAS TO SURFACE IN 4 MINUTES.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED	:	90	FT	OF: MUD-CUT OIL
RECOVERED	:	0	FT	OF: 50%MUD 50%OIL
RECOVERED	:	60	FT	OF: CLEAN WATER-CUT OIL
RECOVERED	:	0	FT	OF: 5%WATER 80%OIL 15%GAS
RECOVERED	:	300	FT	OF: CLEAN WATER-CUT OIL
RECOVERED	:	0	FT	OF: 10%WATER 90%OIL
RECOVERED	:	300	FT	OF: CLEAN WATER-CUT OIL
RECOVERED	:	0	FT	OF: 20%WATER 50%OIL 30%GAS
RECOVERED	:	420	FT	OF: SALT WATER

Total Barrels Fluid	=	16.41
Total Fluid Prod Rate	=	295.39 BFPD
Indicated Oil Rate	=	129.52 BOPD
Indicated Wtr Rate	=	130.66 BWPD
Corrected Oil Rate	=	113.70 BOPD
Corrected Wtr Rate	=	114.70 BWPD

REMARK 1 :
 REMARK 2 : 28 GRAVITY CORRECTED.
 REMARK 3 : CHLORIDES 75000 P.P.M.
 REMARK 4 :

SET PACKER(S) : 5:40 A.M.

TIME STARTED OFF BOTTOM : 8:25 A.M.

WELL TEMPERATURE : 110

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 15

INITIAL CLOSED IN PERIOD MIN: 30

FINAL FLOW PERIOD MIN: 65

FINAL CLOSED IN PERIOD MIN: 60

FINAL HYDROSTATIC PRESSURE

(A) 1713

(B) 349

(D) 536

(E) 341

(G) 538

(H) 1701

PSI TO (C) : 353

PSI TO (F) : 522

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HUTCHINSON OIL COMPANY
RIG : STAFFORD-KANSAS
FIELD : ALPERS
WELL : #1
DATE : 7-27-90
GAUGE NO : 3:659

OPERATIONAL COMMENTS

28 GRAVITY CORRECTED.
CHLORIDES 75000 P.P.M.

COMPANY : HUTCHINSON OIL COMPANY
WELL : #1
GAUGE # : 3:659
DATE : 27/ 7/90

FIELD : ALPERS
JOB # : 16464
DEPTH : 3425
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	5:40: 0	0.000	349.000	110.00	0.000
3	5:44:59	0.083	349.000	110.00	0.000
4	5:50: 0	0.167	349.000	110.00	0.000
5	5:55: 0	0.250	353.000	110.00	4.000
INITIAL SHUT-IN PERIOD					
6	5:58: 0	0.300	493.000	110.00	140.000
7	6: 1: 0	0.350	510.000	110.00	17.000
8	6: 4: 0	0.400	520.000	110.00	10.000
9	6: 7: 0	0.450	525.000	110.00	5.000
10	6:10: 0	0.500	528.000	110.00	3.000
11	6:13: 0	0.550	531.000	110.00	3.000
12	6:16: 0	0.600	533.000	110.00	2.000
13	6:19: 0	0.650	534.000	110.00	1.000
14	6:22: 0	0.700	535.000	110.00	1.000
15	6:25: 0	0.750	536.000	110.00	1.000
FINAL FLOW PERIOD					
16	6:26: 0	0.767	341.000	110.00	-195.000
17	6:29:59	0.833	382.000	110.00	41.000
18	6:35: 0	0.917	411.000	110.00	29.000
19	6:40: 0	1.000	438.000	110.00	27.000
20	6:44:59	1.083	456.000	110.00	18.000
21	6:50: 0	1.167	471.000	110.00	15.000
22	6:55: 0	1.250	483.000	110.00	12.000
23	6:59:59	1.333	493.000	110.00	10.000
24	7: 5: 0	1.417	501.000	110.00	8.000
25	7:10: 0	1.500	507.000	110.00	6.000
26	7:14:59	1.583	512.000	110.00	5.000
27	7:20: 0	1.667	518.000	110.00	6.000
28	7:25: 0	1.750	520.000	110.00	2.000
29	7:29:59	1.833	522.000	110.00	2.000
FINAL SHUT-IN PERIOD					
30	7:32:59	1.883	524.000	110.00	2.000
31	7:35:59	1.933	527.000	110.00	3.000
32	7:38:59	1.983	528.000	110.00	1.000
33	7:41:59	2.033	529.000	110.00	1.000
34	7:44:59	2.083	530.000	110.00	1.000
35	7:47:59	2.133	531.000	110.00	1.000
36	7:50:59	2.183	532.000	110.00	1.000
37	7:53:59	2.233	533.000	110.00	1.000
38	7:56:59	2.283	533.000	110.00	0.000
39	7:59:59	2.333	533.000	110.00	0.000
40	8: 2:59	2.383	534.000	110.00	1.000
41	8: 5:59	2.433	535.000	110.00	1.000
42	8: 8:59	2.483	536.000	110.00	1.000
43	8:11:59	2.533	537.000	110.00	1.000
44	8:14:59	2.583	538.000	110.00	1.000
45	8:17:59	2.633	538.000	110.00	0.000
46	8:20:59	2.683	538.000	110.00	0.000
47	8:23:59	2.733	538.000	110.00	0.000
48	8:26:59	2.783	538.000	110.00	0.000

COMPANY : HUTCHINSON OIL COMPANY
WELL : #1
GAUGE # : 3:659
DATE : 27/ 7/90

FIELD : ALPERS
JOB # : 16464
DEPTH : 3425
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	8:29:59	2.833	538.000	110.00	0.000

WESTERN TESTING CO. INC.

GAS FLOW REPORT

Date : 7-27-90 Ticket # : 16464
 Customer : HUTCHINSON OIL COMPANY Lease : ALPERS
 Well : #1 Test : 1 Geologist : R. LILAC
 Elevation (KB) : 1876 K.B. Formation : LOWER K.C.-F
 Section : 19 Township : 22S
 Range : 12W County : STAFFORD State : KANSAS
 Gauge SN # : 3659 Range : 4000 Clock : 12

TIME GAUGE (MIN)	TESTER TYPE	ORFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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PRE FLOW

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4 MIN.	MERLA	1/2"		GAS TO SURFACE
5 MIN.	MERLA	1/2"	10 PSIG	116000 C.F.P.D.
10 MIN.	MERLA	1/2"	11 PSIG	121000 C.F.P.D.
15 MIN.	MERLA	1/2"	11 PSIG	121000 C.F.P.D.

SECOND FLOW

=====

5 MIN.	MERLA	1/2"	6 PSIG	86300 C.F.P.D.
15 MIN.	MERLA	1/2"	6 PSIG	86300 C.F.P.D.
25 MIN.	MERLA	1/2"	4 PSIG	68800 C.F.P.D.
35 MIN.	MERLA	1/2"	4 PSIG	68800 C.F.P.D.
45 MIN.	MERLA	1/2"	2 PSIG	47700 C.F.P.D.
55 MIN.	MERLA	1/2"	2 PSIG	47700 C.F.P.D.
60 MIN.	MERLA	1/2"	2 PSIG	47700 C.F.P.D.

Gas Bottle SN # : 5EK032
 Date Bottle Filled : 7-27-90
 Date to be Invoiced : 7-27-90



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 16465

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

Elevation 1876 Formation LHC H Eff. Pay — Ft.

District GREATBEND Date 7-27-90 Customer Order No. —

COMPANY NAME HUTCHINSON OIL COMPANY

ADDRESS 105 S. BROADWAY SUITE 470 WICHITA, KS 67202

LEASE AND WELL NO. ALPERS #1 COUNTY STAFFORD STATE KS Sec. 19 Twp. 22S Rge. 12W

Mail Invoice To SAME Co. Name ALPERS #1 Address — No. Copies Requested REG

Mail Charts To SAME Address — No. Copies Requested REG

Formation Test No. 2 Interval Tested From 3469 ft. to 3490 ft. Total Depth 3490 ft.

Packer Depth 3469 ft. Size 65/8 in. Packer Depth — ft. Size — in.

Packer Depth 3464 ft. Size 65/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3482 ft. Recorder Number 3659 Cap. 4000

Bottom Recorder Depth (Outside) 3485 ft. Recorder Number 4339 Cap. 4300

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

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

Mud Type CHEMICAL Viscosity 41 Weight Pipe Length — I. D. — in.

Weight 9.2 Water Loss 12 cc. Drill Pipe Length 3448-3447 I. D. 3.8 in.

Chlorides 6000 P.P.M. Test Tool Length 27 ft. Tool Size 5 1/2 in.

Jars: Make — Serial Number — Anchor Length 27 ft. Size 5 1/2 in.

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

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

Blow: STRONG GTS 6min

Recovered 2660 ft. of CLEAN GASSY OIL

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Chlorides — P.P.M. Sample Jars used 2 Remarks: 41 GRAVITY OIL

Time On Location 730 AM Time Pick Up Tool 915 AM Time Off Location 600 AM

Time Set Packer(s) 1100 AM Time Started Off Bottom 130 PM Maximum Temperature 110

Initial Hydrostatic Pressure — (A) 1733 P.S.I.

Initial Flow Period 15 Minutes (B) 204 P.S.I. to (C) 204 P.S.I.

Initial Closed In Period 30 Minutes (D) 1037 P.S.I.

Final Flow Period 45 Minutes (E) 224 P.S.I. to (F) 346 P.S.I.

Final Closed In Period 60 Minutes (G) 1027 P.S.I.

Final Hydrostatic Pressure — (H) 1733 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 Randall M. Hilak
Signature of Customer or his authorized representative

Western Representative Norman Hickel Thank You
0830

FIELD INVOICE

Open Hole Test ✓ \$ 450
Misrun \$ —
Straddle Test \$ —
Jars \$ —
Selective Zone \$ —
Safety Joint \$ —
Standby \$ —
Evaluation \$ —
Extra Packer \$ —
Circ. Sub. ✓ \$ 35
Mileage \$ —
Fluid Sampler \$ —
Extra Charts \$ —
Insurance \$ —
Telecopier \$ —
TOTAL \$ —



GAS FLOW REPORT

No 5098

Date 7-28-90 Ticket 16465 Company HUTCHINSON OIL CO
 Well Name and No. ALPERS 41 Dst No. 2 Interval Tested 3469-90
 County STAFFORD State KS Sec. 19 Twp. 22 Rg. 12W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
GTS 6 MIN					
PRE FLOW					
7	11	1/2			121,000 CFPP
15	10	1/2			116,000 CFPP

SECOND FLOW

3	6	1/2			86,300 CFPP
15	2	1/2			47,700 CFPP
30	3	1/2			10,000 10,900 CFPP
40	1	1/2			6,270 CFPP
45	1/2	1/2			10,000 Could not gauge

GAS BOTTLE

Serial No. B20-12136 Date Bottle Filled 7-28-90 Date to be Invoiced _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME HUTCHINSON OIL COAuthorized by Kendall M. Hilat

WESTERN TESTING CO., INC.

Pressure Data

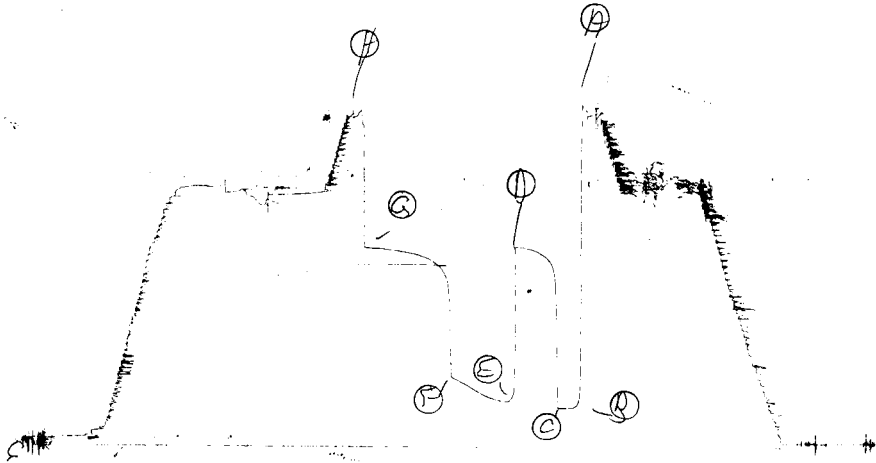
Date 7-27-90 Test Ticket No. 16465
 Recorder No. 31059 Capacity 4000 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature 110 °P
 Point _____ Pressure _____ Time Given _____ Time Computed _____
 A Initial Hydrostatic Mod. 1756 P.S.I. Open Tool 11:00 M
 B First Initial Flow Pressure 190 P.S.I. First Flow Pressure 15 Min. 15 Min.
 C First Final Flow Pressure 190 P.S.I. Initial Closed-in Pressure 30 Min. 30 Min.
 D Initial Closed-in Pressure 1029 P.S.I. Second Flow Pressure 45 Min. 45 Min.
 E Second Initial Flow Pressure 222 P.S.I. Final Closed-in Pressure 60 Min. 60 Min.
 F Second Final Flow Pressure 248 P.S.I.
 G Final Closed-in Pressure 1021 P.S.I.
 H Final Hydrostatic Mod. 1717 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>190</u>		0	<u>190</u>		0	<u>222</u>		0	<u>248</u>	
P 2 5			3	<u>872</u>		5	<u>222</u>		3	<u>224</u>	
P 3 10			6	<u>945</u>		10	<u>224</u>		6	<u>222</u>	
P 4 15	<u>190</u>		9	<u>970</u>		15	<u>233</u>		9	<u>224</u>	
P 5 20			12	<u>988</u>		20	<u>246</u>		12	<u>240</u>	
P 6 25			15	<u>1003</u>		25	<u>262</u>		15	<u>257</u>	
P 7 30			18	<u>1011</u>		30	<u>283</u>		18	<u>268</u>	
P 8 35			21	<u>1016</u>		35	<u>306</u>		21	<u>276</u>	
P 9 40			24	<u>1021</u>		40	<u>323</u>		24	<u>282</u>	
P 10 45			27	<u>1026</u>		45	<u>348</u>		27	<u>289</u>	
P 11 50			30	<u>1029</u>		50			30	<u>294</u>	
P 12 55			33			55			33	<u>298</u>	
P 13 60			36			60			36	<u>1002</u>	
P 14 65			39			65			39	<u>1004</u>	
P 15 70			42			70			42	<u>1007</u>	
P 16 75			45			75			45	<u>1010</u>	
P 17 80			48			80			48	<u>1014</u>	
P 18 85			51			85			51	<u>1016</u>	
P 19 90			54			90			54	<u>1017</u>	
P 20 95			57			95			57	<u>1018</u>	
100			60			100			60	<u>1019</u>	
									62	<u>1020</u>	
									60.	<u>1021</u>	

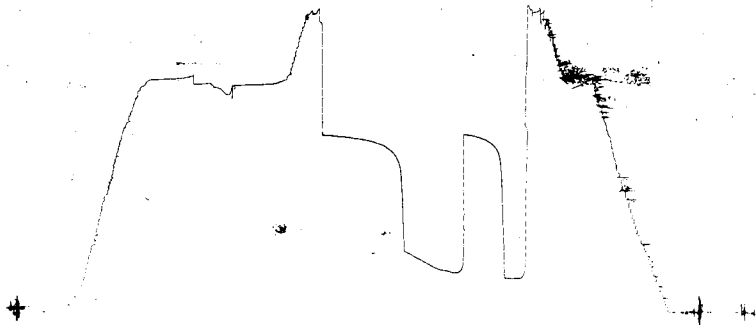
659C.

KT. 16465.
I

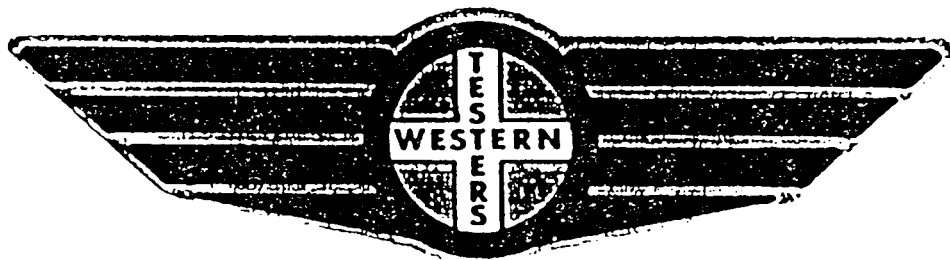


KT. 16465.

O



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY

HUTCHINSON OIL COMPANY

LEASE & WELL NO.

ALPERS #1

SEC. 19 TWP. 22S. RGE. 12W. TEST NO. 2 DATE 7/27/90

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	7-27-90	TICKET	:	16465
CUSTOMER	:	HUTCHINSON OIL COMPANY	LEASE	:	ALPERS
WELL	:	#1	TEST:	:	2
ELEVATION	:	1876 K.B.	GEOLOGIST	:	R. LILAK
SECTION	:	19	FORMATION	:	LOWER K.C.-H
RANGE	:	12W	TOWNSHIP	:	22S
Gauge SN#	:	3659	STATE	:	KANSAS
	:		CLOCK	:	12
	:	COUNTY :	STAFFORD	:	
	:	RANGE :	4000	:	

INTERVAL FROM	:	3469	TO	:	3490	TOTAL DEPTH	:	3490
DEPTH OF SELECTIVE ZONE	:			:			:	
PACKER DEPTH	:	3469	SIZE	:	6.63		:	
PACKER DEPTH	:	3464	SIZE	:	6.63		:	
PACKER DEPTH	:		SIZE	:			:	
PACKER DEPTH	:		SIZE	:			:	

DRILLING CON.	:	H-30 #7		:	
MUD TYPE	:	CHEMICAL	VISCOSITY	:	41
WEIGHT	:	9.2	WATER LOSS (CC)	:	12.0
CHLORIDES (PPM)	:	6000		:	
JARS-MAKE	:		SERIAL NUMBER	:	
DID WELL FLOW ?	:		REVERSED OUT ?	:	YES

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3447	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	22	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	21	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 : GAS TO SURFACE IN 6 MINUTES.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 2660 FT OF: CLEAN GASSY OIL
RECOVERED : 0 FT OF: 41 GRAVITY CORRECTED

Total Barrels Fluid = 37.31
Total Fluid Prod Rate = 895.44 BFPD
Indicated Oil Rate = 895.44 BOPD
Corrected Oil Rate = 149.75 BOPD

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

SET PACKER(S) : 11:00 P.M.

TIME STARTED OFF BOTTOM : 1:30 A.M.

WELL TEMPERATURE : 110

INITIAL HYDROSTATIC PRESSURE

(A) 1756

INITIAL FLOW PERIOD MIN: 15

(B) 190 PSI TO (C) : 190

INITIAL CLOSED IN PERIOD MIN: 30

(D) 1029

FINAL FLOW PERIOD MIN: 45

(E) 222 PSI TO (F) : 348

FINAL CLOSED IN PERIOD MIN: 66

(G) 1021

FINAL HYDROSTATIC PRESSURE

(H) 1717

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HUTCHINSON OIL COMPANY
RIG : STAFFORD-KANSAS
FIELD : ALPERS
WELL : #1
DATE : 7-27-90
GAUGE NO : 3659

OPERATIONAL COMMENTS

COMPANY : HUTCHINSON OIL COMPANY
WELL : #1
GAUGE # : 3659
DATE : 27/ 7/90

FIELD : ALPERS
JOB # : 16465
DEPTH : 3490
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: 0: 0	0.000	190.000	110.00	0.000
3	11: 4:59	0.083	190.000	110.00	0.000
4	11:10: 0	0.167	190.000	110.00	0.000
5	11:15: 0	0.250	190.000	110.00	0.000
INITIAL SHUT-IN PERIOD					
6	11:18: 0	0.300	872.000	110.00	682.000
7	11:21: 0	0.350	945.000	110.00	73.000
8	11:24: 0	0.400	970.000	110.00	25.000
9	11:27: 0	0.450	988.000	110.00	18.000
10	11:30: 0	0.500	1003.000	110.00	15.000
11	11:33: 0	0.550	1011.000	110.00	8.000
12	11:36: 0	0.600	1016.000	110.00	5.000
13	11:39: 0	0.650	1021.000	110.00	5.000
14	11:42: 0	0.700	1026.000	110.00	5.000
15	11:45: 0	0.750	1029.000	110.00	3.000
FINAL FLOW PERIOD					
16	11:46: 0	0.767	222.000	110.00	-307.000
17	11:49:59	0.833	222.000	110.00	0.000
18	11:55: 0	0.917	224.000	110.00	2.000
19	12: 0: 0	1.000	233.000	110.00	9.000
20	12: 4:59	1.083	246.000	110.00	13.000
21	12:10: 0	1.167	263.000	110.00	17.000
22	12:15: 0	1.250	285.000	110.00	22.000
23	12:19:59	1.333	306.000	110.00	21.000
24	12:25: 0	1.417	323.000	110.00	17.000
25	12:30: 0	1.500	348.000	110.00	25.000
FINAL SHUT-IN PERIOD					
26	12:33: 0	1.550	824.000	110.00	476.000
27	12:36: 0	1.600	893.000	110.00	69.000
28	12:39: 0	1.650	921.000	110.00	28.000
29	12:42: 0	1.700	940.000	110.00	19.000
30	12:45: 0	1.750	957.000	110.00	17.000
31	12:48: 0	1.800	968.000	110.00	11.000
32	12:51: 0	1.850	976.000	110.00	8.000
33	12:54: 0	1.900	983.000	110.00	7.000
34	12:57: 0	1.950	989.000	110.00	6.000
35	13: 0: 0	2.000	994.000	110.00	5.000
36	13: 3: 0	2.050	998.000	110.00	4.000
37	13: 5:59	2.100	1002.000	110.00	4.000
38	13: 9: 0	2.150	1004.000	110.00	2.000
39	13:12: 0	2.200	1007.000	110.00	3.000
40	13:15: 0	2.250	1010.000	110.00	3.000
41	13:18: 0	2.300	1014.000	110.00	4.000
42	13:21: 0	2.350	1016.000	110.00	2.000
43	13:24: 0	2.400	1017.000	110.00	1.000
44	13:27: 0	2.450	1018.000	110.00	1.000
45	13:30: 0	2.500	1019.000	110.00	1.000
46	13:33: 0	2.550	1020.000	110.00	1.000
47	13:36: 0	2.600	1021.000	110.00	1.000

GAS FLOW REPORT

Date : 7-27-90 Ticket # : 16465
 Customer : HUTCHINSON OIL COMPANY Lease : ALPERS
 Well : #1 Test : 2 Geologist : R. LILAK
 Elevation (KB) : 1876 K.B. Formation : LOWER K.C.-H
 Section : 19 Township : 22S
 Range : 12W County : STAFFORD State : KANSAS
 Gauge SN # : 3659 Range : 4000 Clock : 12

TIME GAUGE (MIN)	TESTER TYPE	ORFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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PRE FLOW

=====

6 MIN.	MERLA	1/2"		GAS TO SURFACE
7 MIN.	MERLA	1/2"	11 PSIG	121000 C.F.P.D.
15 MIN.	MERLA	1/2"	10 PSIG	116000 C.F.P.D.

SECOND FLOW

=====

5 MIN.	MERLA	1/2"	6 PSIG	86300 C.F.P.D.
15 MIN.	MERLA	1/2"	2 PSIG	47700 C.F.P.D.
30 MIN.	MERLA	1/2"	3"WTR	10900 C.F.P.D.
40 MIN.	MERLA	1/2"	1"WTR	6270 C.F.P.D.
45 MIN.	MERLA	1/2"	.5"WTR	COULD NOT GUAGE

Gas Bottle SN # : B20-12136
 Date Bottle Filled : 7-27-90
 Date to be Invoiced : 7-27-90



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 16466

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

Elevation 1876 Formation LKC I Eff. Pay — Ft.

District GREAT BEND Date 7-28-90 Customer Order No. —
COMPANY NAME HUTCHINSON OIL COMPANY
ADDRESS 105 S. BROADWAY SUITE 470 WICHITA, KS. 67202
LEASE AND WELL NO. ALPERS #1 COUNTY STAFFORD STATE KS Sec. 19 Twp. 22 Rge. 12^W
Mail Invoice To SAME Co. Name Alpers #1 Address — No. Copies Requested REG
Mail Charts To SAME Address — No. Copies Requested REG

Formation Test No. 3 Interval Tested From 3489 ft. to 3505 ft. Total Depth 3505 ft.

Packer Depth 3489 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 3484 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3497 ft.

Recorder Number 3659 Cap. 4000

Bottom Recorder Depth (Outside) 3500 ft.

Recorder Number 4339 Cap. 4300

Below Straddle Recorder Depth — ft.

Recorder Number — Cap. —

Drilling Contractor H-30 #7

Drill Collar Length — I. D. — in.

Mud Type CHEMICAL Viscosity 43

Weight Pipe Length — I. D. — in.

Weight 8.6 Water Loss 10.8 cc.

Drill Pipe Length 3467 I. D. — in.

Chlorides 8000 P.P.M.

Test Tool Length 22 ft. Tool Size 5 1/2 in.

Jars: Make — Serial Number —

Anchor Length 16 ft. Size 5 1/2 in.

Did Well Flow? — Reversed Out —

Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

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

Blow: STRONG G.T.S 3MIN INTO ISIP

Recovered 800 ft. of CORAN GASSEY OIL 37 GRAVITY

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

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

Time On Location 1030 A.M. Time Pick Up Tool 1145 P.M. Time Off Location 845 A.M.

Time Set Packer(s) 100 A.M. Time Started Off Bottom 345 P.M. Maximum Temperature 110

Initial Hydrostatic Pressure — (A) 1772 P.S.I.

Initial Flow Period 30 Minutes (B) 81 P.S.I. to (C) 122 P.S.I.

Initial Closed In Period 30 Minutes (D) 729 P.S.I.

Final Flow Period 45 Minutes (E) 153 P.S.I. to (F) 183 P.S.I.

Final Closed In Period 60 Minutes (G) 729 P.S.I.

Final Hydrostatic Pressure — (H) 1703 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 Norman Hickel
Signature of Customer or his authorized representative

Western Representative Norman Hickel Thank You
0830

FIELD INVOICE

Open Hole Test ✓ 450
Misrun \$ —
Straddle Test \$ —
Jars \$ —
Selective Zone \$ —
Safety Joint \$ —
Standby \$ —
Evaluation \$ —
Extra Packer \$ —
Circ. Sub. \$ —
Mileage \$ —
Fluid Sampler \$ —
Extra Charts \$ —
Insurance \$ —
Telecopier \$ —
TOTAL \$ —

WICHITA, KANSAS 67201

Nº 5099

GAS FLOW REPORT

Date 7-28-90 Ticket 16466 Company HUTCHINSON OIL CO
Well Name and No. ALPERS #1 Dst No. 3 Interval Tested 3489-3505
County STAFFORD State MS Sec. 19 Twp. 22 Rg. 12 W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
--------------------	-------------------------------------	-----------------	------------------------	------------------------------	---------------------

PRE FLOW

[illegible]

GTS 3 MIN INTO I.S.I.

SECOND FLOW

5	3	1/4	15 700	C F P D
15	4	"	18,500	"
25	4	"	18 500	"
35	4	"	18 500	"
45	4	"		

GAS BOTTLE

Serial No. 8E0079 Date Bottle Filled 7-28-90 Date to be Invoiced _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME HUTCHINSON OIL CO
Authorized by Randall M. Huber

WESTERN TESTING CO., INC.

Pressure Data

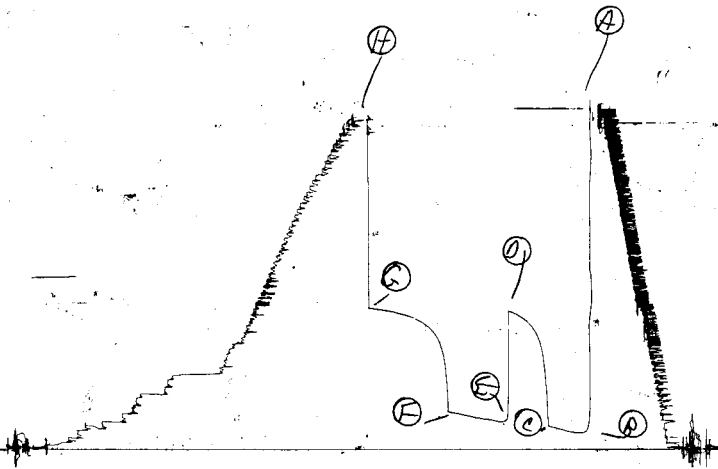
Date 7-18-90 Recorder No. 2659 Capacity 4000 Location 16466 Test Ticket No. 16466
 Clock No. 110 Elevation 110 Well Temperature 110 °F
 Point Pressure
 A Initial Hydrostatic Mud 1758 P.S.I. Open Tool 1:00 M
 B First Initial Flow Pressure 90 P.S.I. First Flow Pressure 30 Mins 30 Mins
 C First Final Flow Pressure 127 P.S.I. Initial Closed-in Pressure 39 Mins 39 Mins
 D Initial Closed-in Pressure 759 P.S.I. Second Flow Pressure 75 Mins 75 Mins
 E Second Initial Flow Pressure 152 P.S.I. Final Closed-in Pressure 60 Mins 60 Mins
 F Second Final Flow Pressure 199 P.S.I.
 G Final Closed-in Pressure 744 P.S.I.
 H Final Hydrostatic Mud 1718 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 Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>90</u>	<u>0</u>	<u>127</u>	<u>0</u>	<u>152</u>	<u>0</u>	<u>199</u>
P 2 <u>5</u>	<u>90</u>	<u>3</u>	<u>417</u>	<u>5</u>	<u>152</u>	<u>3</u>	<u>467</u>
P 3 <u>10</u>	<u>90</u>	<u>6</u>	<u>546</u>	<u>10</u>	<u>156</u>	<u>6</u>	<u>547</u>
P 4 <u>15</u>	<u>95</u>	<u>9</u>	<u>602</u>	<u>15</u>	<u>165</u>	<u>9</u>	<u>594</u>
P 5 <u>20</u>	<u>107</u>	<u>12</u>	<u>639</u>	<u>20</u>	<u>168</u>	<u>12</u>	<u>625</u>
P 6 <u>25</u>	<u>117</u>	<u>15</u>	<u>665</u>	<u>25</u>	<u>175</u>	<u>15</u>	<u>643</u>
P 7 <u>30</u>	<u>127</u>	<u>18</u>	<u>684</u>	<u>30</u>	<u>182</u>	<u>18</u>	<u>659</u>
P 8 <u>35</u>		<u>21</u>	<u>698</u>	<u>35</u>	<u>189</u>	<u>21</u>	<u>675</u>
P 9 <u>40</u>		<u>24</u>	<u>711</u>	<u>40</u>	<u>195</u>	<u>24</u>	<u>687</u>
P 10 <u>45</u>		<u>27</u>	<u>719</u>	<u>45</u>	<u>199</u>	<u>27</u>	<u>695</u>
P 11 <u>50</u>		<u>30</u>	<u>729</u>	<u>50</u>		<u>30</u>	<u>703</u>
P 12 <u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	<u>709</u>
P 13 <u>60</u>		<u>36</u>		<u>60</u>		<u>36</u>	<u>716</u>
P 14 <u>65</u>		<u>39</u>		<u>65</u>		<u>39</u>	<u>721</u>
P 15 <u>70</u>		<u>42</u>		<u>70</u>		<u>42</u>	<u>726</u>
P 16 <u>75</u>		<u>45</u>		<u>75</u>		<u>45</u>	<u>730</u>
P 17 <u>80</u>		<u>48</u>		<u>80</u>		<u>48</u>	<u>733</u>
P 18 <u>85</u>		<u>51</u>		<u>85</u>		<u>51</u>	<u>737</u>
P 19 <u>90</u>		<u>54</u>		<u>90</u>		<u>54</u>	<u>740</u>
P 20 <u>95</u>		<u>57</u>		<u>95</u>		<u>57</u>	<u>742</u>
100		<u>60</u>		100		<u>60</u>	<u>744</u>

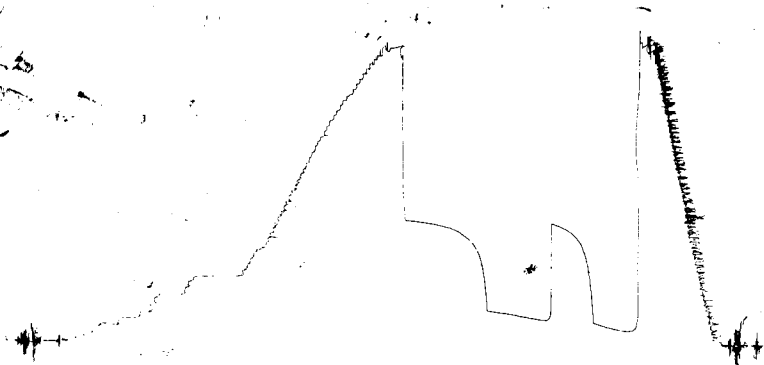
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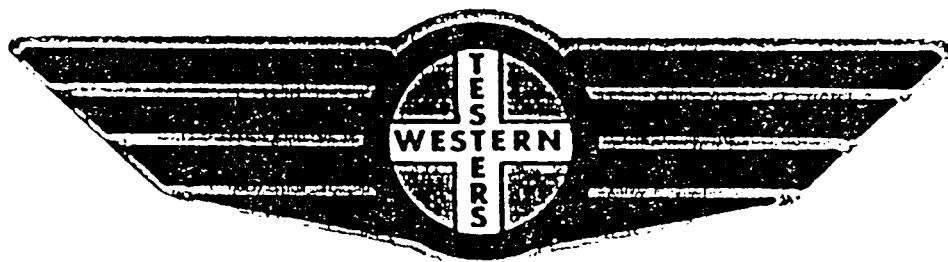


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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	7-28-90	TICKET	:	16466
CUSTOMER	:	HUTCHINSON OIL COMPANY	LEASE	:	ALPERS
WELL	:	#1 TEST: 3	GEOLOGIST	:	R. LILAK
ELEVATION	:	1876 K.B.	FORMATION	:	LOWER K.C.-I
SECTION	:	19	TOWNSHIP	:	22S
RANGE	:	12W	STATE	:	KANSAS
GAUGE SN#	:	3659	CLOCK	:	12
		COUNTY : STAFFORD			
		RANGE : 4000			

INTERVAL FROM	:	3489	TO	:	3505	TOTAL DEPTH	:	3505
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3489	SIZE	:	6.63			
PACKER DEPTH	:	3484	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	H-30 #7			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	43
WEIGHT	:	8.6	WATER LOSS (CC)	:	10.8
CHLORIDES (PPM)	:	8000			
JARS-MAKE	:		SERIAL NUMBER	:	
DID WELL FLOW ?	:		REVERSED OUT ?	:	

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3467	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	22	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	16	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 : GAS TO SURFACE 3 MINUTES INTO INITIAL
BLOW COMMENT #3 : SHUT-IN PERIOD.
BLOW COMMENT #4 :

RECOVERED : 800 FT OF: CLEAN GASSY OIL
RECOVERED : 0 FT OF: 37 GRAVITY CORRECTED

total Barrels Fluid = 11.22
total Fluid Prod Rate = 215.44 BFFD
indicated Oil Rate = 215.44 BOPD
corrected Oil Rate = 80.73 BOPD

EMARK 1 :
EMARK 2 :
EMARK 3 :
EMARK 4 :

SET PACKER(S) :	1:00 P.M.	TIME STARTED OFF BOTTOM :	3:45 P.M.
WELL TEMPERATURE :	110		
INITIAL HYDROSTATIC PRESSURE		(A)	1758
INITIAL FLOW PERIOD MIN:	30	(B)	90 PSI TO (C) : 127
INITIAL CLOSED IN PERIOD MIN:	30	(D)	729
INITIAL FLOW PERIOD MIN:	45	(E)	152 PSI TO (F) : 199
INITIAL CLOSED IN PERIOD MIN:	60	(G)	744
INITIAL HYDROSTATIC PRESSURE		(H)	1718

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HUTCHINSON OIL COMPANY
RIG : STAFFORD-KANSAS
FIELD : ALPERS
WELL : #1
DATE : 7-28-90
GAUGE NO : 3659

OPERATIONAL COMMENTS

COMPANY : HUTCHINSON OIL COMPANY
WELL : #1
GAUGE # : 3659
DATE : 28/ 7/90

FIELD : ALPERS
JOB # : 16466
DEPTH : 3505
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: 0: 0	0.000	90.000	110.00	0.000
3	1: 4:59	0.083	90.000	110.00	0.000
4	1:10: 0	0.167	90.000	110.00	0.000
5	1:15: 0	0.250	95.000	110.00	5.000
6	1:19:59	0.333	107.000	110.00	12.000
7	1:25: 0	0.417	117.000	110.00	10.000
8	1:30: 0	0.500	127.000	110.00	10.000
INITIAL SHUT-IN PERIOD					
9	1:33: 0	0.550	417.000	110.00	290.000
10	1:36: 0	0.600	546.000	110.00	129.000
11	1:39: 0	0.650	602.000	110.00	56.000
12	1:42: 0	0.700	639.000	110.00	37.000
13	1:45: 0	0.750	665.000	110.00	26.000
14	1:48: 0	0.800	684.000	110.00	19.000
15	1:51: 0	0.850	698.000	110.00	14.000
16	1:54: 0	0.900	711.000	110.00	13.000
17	1:57: 0	0.950	719.000	110.00	8.000
18	2: 0: 0	1.000	729.000	110.00	10.000
FINAL FLOW PERIOD					
19	2: 1: 0	1.017	152.000	110.00	-577.000
20	2: 4:59	1.083	152.000	110.00	0.000
21	2:10: 0	1.167	156.000	110.00	4.000
22	2:15: 0	1.250	165.000	110.00	9.000
23	2:19:59	1.333	168.000	110.00	3.000
24	2:25: 0	1.417	175.000	110.00	7.000
25	2:30: 0	1.500	182.000	110.00	7.000
26	2:34:59	1.583	189.000	110.00	7.000
27	2:40: 0	1.667	195.000	110.00	6.000
28	2:45: 0	1.750	199.000	110.00	4.000
FINAL SHUT-IN PERIOD					
29	2:48: 0	1.800	467.000	110.00	268.000
30	2:51: 0	1.850	547.000	110.00	80.000
31	2:54: 0	1.900	594.000	110.00	47.000
32	2:57: 0	1.950	623.000	110.00	29.000
33	3: 0: 0	2.000	643.000	110.00	20.000
34	3: 3: 0	2.050	659.000	110.00	16.000
35	3: 5:59	2.100	675.000	110.00	16.000
36	3: 9: 0	2.150	687.000	110.00	12.000
37	3:12: 0	2.200	695.000	110.00	8.000
38	3:15: 0	2.250	703.000	110.00	8.000
39	3:18: 0	2.300	709.000	110.00	6.000
40	3:21: 0	2.350	716.000	110.00	7.000
41	3:24: 0	2.400	721.000	110.00	5.000
42	3:27: 0	2.450	726.000	110.00	5.000
43	3:30: 0	2.500	730.000	110.00	4.000
44	3:33: 0	2.550	733.000	110.00	3.000
45	3:36: 0	2.600	737.000	110.00	4.000
46	3:39: 0	2.650	740.000	110.00	3.000
47	3:42: 0	2.700	742.000	110.00	2.000
48	3:45: 0	2.750	744.000	110.00	2.000

GAS FLOW REPORT

Date : 7-28-90 Ticket # : 16466
 Customer : HUTCHINSON OIL COMPANY Lease : ALPERS
 Well : #1 Test : 3 Geologist : R. LILAK
 Elevation (KB) : 1876 K.B. Formation : LOWER K.C.-I
 Section : 19 Township : 22S
 Range : 12W County : STAFFORD State : KANSAS
 Gauge SN # : 3659 Range : 4000 Clock : 12

TIME GAUGE (MIN)	TESTER TYPE	ORFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
---------------------	-------------	----------------	-------------------	------------------

PRE FLOW

=====

3 MIN.	MERLA	1/4"		GAS TO SURFACE DURING INITIAL SHUT-IN PERIOD
--------	-------	------	--	--

SECOND FLOW

=====

5 MIN.	MERLA	1/4"	3 PSIG	15700 C.F.P.D.
15 MIN.	MERLA	1/4"	4 PSIG	18500 C.F.P.D.
25 MIN.	MERLA	1/4"	4 PSIG	18500 C.F.P.D.
35 MIN.	MERLA	1/4"	4 PSIG	18500 C.F.P.D.
45 MIN.	MERLA	1/4"	4 PSIG	18500 C.F.P.D.

Gas Bottle SN # : 8E0079
 Date Bottle Filled : 7-28-90
 Date to be Invoiced : 7-28-90



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N^o 16467

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

WICHITA, KANSAS 67201

Elevation 1876 Formation LKC J&K Eff. Pay - Ft.

District 11 GREAT BEND Date 7-29-90 Customer Order No. —

COMPANY NAME HUTCHINSON OIL CO

ADDRESS 105 S. BROADWAY SUITE 470 WICHITA KS. 67202

LEASE AND WELL NO. ALPER #1 COUNTY STAFFORD STATE KS Sec 19 Twp. 22 Rge 12^W

Mail Invoice To SAME Co. Name ALPERS #1 Address No. Copies Requested REG

Mail Charts To SAME Address No. Copies Requested REG

Formation Test No. 4 Interval Tested From 3507 ft. to 3550 ft. Total Depth 3550 ft.

Packer Depth 3507 ft. Size 65/8 in. Packer Depth — ft. Size — in.

Packer Depth 3502 ft. Size 65/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3515 ft.

Recorder Number 3659 Cap. 4000

Bottom Recorder Depth (Outside) 3518 ft.

Recorder Number 4339 Cap. 4300

Below Straddle Recorder Depth — ft.

Recorder Number — Cap. —

Drilling Contractor H-30 #7

Drill Collar Length — I. D. — in.

Mud Type CHEMICAL Viscosity 43

Weight Pipe Length — I. D. — in.

Weight 88 Water Loss 10 cc.

Drill Pipe Length 3485 I. D. 3.8 in.

Chlorides 8000 P.P.M.

Test Tool Length 22 ft. Tool Size 5 1/2 in.

Jars: Make — Serial Number —

Anchor Length 43 ft. Size 5 1/2 in.

Did Well Flow? — Reversed Out —

Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

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

Blow: WEAK TO FAIR 5" IN BUCKET
WEAK TO FAIR 5" IN BUCKET

Recovered 30 ft. of MUD OIL TRACES

Recovered — ft. of —

Recovered 100 ft. of —

Recovered — ft. of —

Recovered — ft. of —

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

Time On Location 400 A.M. Time Pick Up Tool 515 A.M. Time Off Location 1130 A.M.

Time Set Packer(s) 630 A.M. Time Started Off Bottom 930 A.M. Maximum Temperature 110

Initial Hydrostatic Pressure (A) 1733 P.S.I.

Initial Flow Period Minutes 30 (B) 40 P.S.I. to (C) 40 P.S.I.

Initial Closed In Period Minutes 45 (D) 569 P.S.I.

Final Flow Period Minutes 45 (E) 40 P.S.I. to (F) 40 P.S.I.

Final Closed In Period Minutes 60 (G) 679 P.S.I.

Final Hydrostatic Pressure (H) 1733 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 Radare M. Selor
Signature of Customer or his authorized representative

Western Representative Norman Hickel Thank You

0830

FIELD INVOICE

Open Hole Test ☒ \$ 450
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 7-25-90 Test Ticket No. 16467
 Recorder No. 2659 Capacity 4000 Location _____ Ft. _____
 Clock No. _____ Elevation _____ Well Temperature 110 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mod.	<u>1754</u> P.S.I.		<u>6:50A</u>	<u>7:00</u>
B First Initial Flow Pressure	<u>37</u> P.S.I.	First Flow Pressure	<u>30</u> Min.	<u>30</u> Min.
C First Final Flow Pressure	<u>37</u> P.S.I.	Initial Closed-In Pressure	<u>45</u> Min.	<u>51</u> Min.
D Initial Closed-In Pressure	<u>588</u> P.S.I.	Second Flow Pressure	<u>45</u> Min.	<u>45</u> Min.
E Second Initial Flow Pressure	<u>49</u> P.S.I.	Final Closed-In Pressure	<u>60</u> Min.	<u>66</u> Min.
F Second Final Flow Pressure	<u>49</u> P.S.I.			
G Final Closed-In Pressure	<u>703</u> P.S.I.			
H Final Hydrostatic Mod.	<u>1744</u> P.S.I.			

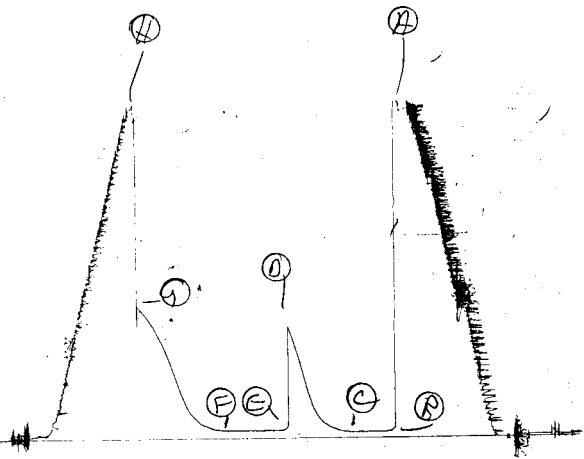
PRESSURE BREAKDOWN

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 <u>0</u>	<u>37</u>	<u>0</u>	<u>37</u>	<u>0</u>	<u>49</u>	<u>0</u>	<u>45</u>
P 2 <u>5</u>		<u>3</u>	<u>37</u>	<u>5</u>		<u>3</u>	<u>50</u>
P 3 <u>10</u>		<u>6</u>	<u>37</u>	<u>10</u>		<u>6</u>	<u>52</u>
P 4 <u>15</u>		<u>9</u>	<u>41</u>	<u>15</u>		<u>9</u>	<u>54</u>
P 5 <u>20</u>		<u>12</u>	<u>47</u>	<u>20</u>		<u>12</u>	<u>62</u>
P 6 <u>25</u>		<u>15</u>	<u>57</u>	<u>25</u>		<u>15</u>	<u>70</u>
P 7 <u>30</u>	<u>37</u>	<u>18</u>	<u>62</u>	<u>30</u>		<u>18</u>	<u>77</u>
P 8 <u>35</u>		<u>21</u>	<u>77</u>	<u>35</u>		<u>21</u>	<u>92</u>
P 9 <u>40</u>		<u>24</u>	<u>96</u>	<u>40</u>		<u>24</u>	<u>114</u>
P 10 <u>45</u>		<u>27</u>	<u>130</u>	<u>45</u>	<u>49</u>	<u>27</u>	<u>142</u>
P 11 <u>50</u>		<u>30</u>	<u>168</u>	<u>50</u>		<u>30</u>	<u>175</u>
P 12 <u>55</u>		<u>33</u>	<u>220</u>	<u>55</u>		<u>33</u>	<u>219</u>
P 13 <u>60</u>		<u>36</u>	<u>282</u>	<u>60</u>		<u>36</u>	<u>277</u>
P 14 <u>65</u>		<u>39</u>	<u>362</u>	<u>65</u>		<u>39</u>	<u>329</u>
P 15 <u>70</u>		<u>42</u>	<u>440</u>	<u>70</u>		<u>42</u>	<u>398</u>
P 16 <u>75</u>		<u>45</u>	<u>504</u>	<u>75</u>		<u>45</u>	<u>450</u>
P 17 <u>80</u>		<u>48</u>	<u>562</u>	<u>80</u>		<u>48</u>	<u>504</u>
P 18 <u>85</u>		<u>51</u>	<u>588</u>	<u>85</u>		<u>51</u>	<u>544</u>
P 19 <u>90</u>		<u>54</u>		<u>90</u>		<u>54</u>	<u>589</u>
P 20 <u>95</u>		<u>57</u>		<u>95</u>		<u>57</u>	<u>614</u>
<u>100</u>		<u>60</u>		<u>100</u>		<u>60</u>	<u>643</u>
						<u>63</u>	<u>674</u>
						<u>66</u>	<u>703</u>

KT 16467

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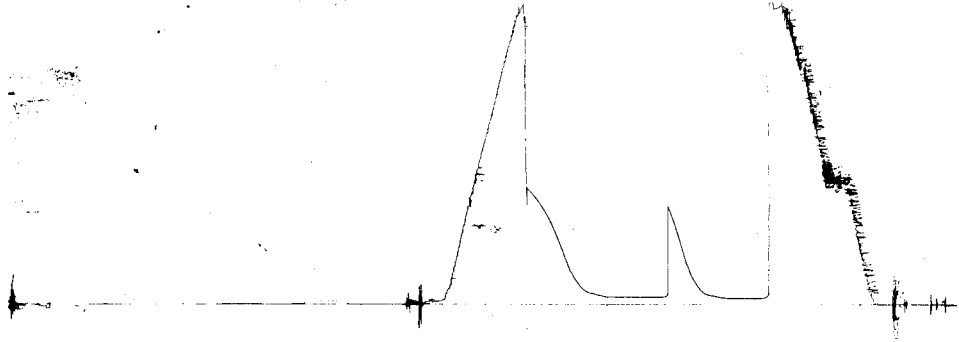
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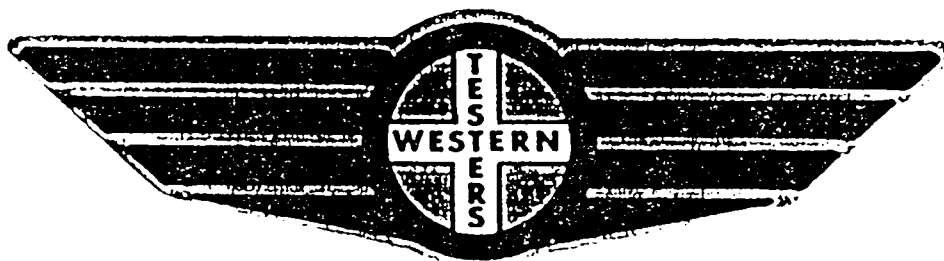
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	7-29-90	TICKET	:	16467
CUSTOMER	:	HUTCHINSON OIL COMPANY	LEASE	:	ALPERS
WELL	:	#1	TEST:	:	4
ELEVATION	:	1876 K.B.	GEOLOGIST	:	R. LILAK
SECTION	:	19	FORMATION	:	LOWER K.C.-J&K
RANGE	:	12W	TOWNSHIP	:	22S
GAUGE SN#	:	3659	STATE	:	KANSAS
		COUNTY :	CLOCK	:	12
		RANGE :			
		4000			

INTERVAL FROM	:	3507	TO	:	3550	TOTAL DEPTH	:	3550
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3507	SIZE	:	6.63			
PACKER DEPTH	:	3502	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	H-30 #7	VISCOSITY	:	43
MUD TYPE	:	CHEMICAL	WATER LOSS (CC)	:	10.0
WEIGHT	:	8.8			
CHLORIDES (PPM)	:	8000	SERIAL NUMBER	:	
JARS-MAKE	:		REVERSED OUT ?	:	
DID WELL FLOW ?	:				

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3485	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	22	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	43	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 TO FAIR BLOW WITH 5 INCHES IN BUCKET
BLOW COMMENT #2	:	DURING BOTH FLOW PERIODS.
BLOW COMMENT #3	:	
BLOW COMMENT #4	:	

RECOVERED : 30 FT OF: MUD W/ OIL TRACES

Total Barrels Fluid = 0.42
Total Fluid Prod Rate = 8.08 BFPD
Indicated Wtr Rate = 0.81 BWPD

REMARK 1 :
REMARK 2 : 120 FT. GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) :	6:30 A.M.	TIME STARTED OFF BOTTOM :	9:30 A.M.
WELL TEMPERATURE :	110		
INITIAL HYDROSTATIC PRESSURE		(A)	1756
INITIAL FLOW PERIOD MIN:	30	(B)	37 PSI TO (C) : 37
INITIAL CLOSED IN PERIOD MIN:	51	(D)	588
FINAL FLOW PERIOD MIN:	45	(E)	49 PSI TO (F) : 49
FINAL CLOSED IN PERIOD MIN:	66	(G)	703
FINAL HYDROSTATIC PRESSURE		(H)	1742

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HUTCHINSON OIL COMPANY
RIG : STAFFORD-KANSAS
FIELD : ALPERS
WELL : #1
DATE : 7-29-90
GAUGE NO : 3659

OPERATIONAL COMMENTS

120 FT. GAS ABOVE FLUID.

COMPANY : HUTCHINSON OIL COMPANY
WELL : #1
GAUGE # : 3659
DATE : 29/ 7/90

FIELD : ALPERS
JOB # : 16467
DEPTH : 3550
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	6:30: 0	0.000	37.000	110.00	0.000
3	6:34:59	0.083	37.000	110.00	0.000
4	6:40: 0	0.167	37.000	110.00	0.000
5	6:45: 0	0.250	37.000	110.00	0.000
6	6:49:59	0.333	37.000	110.00	0.000
7	6:55: 0	0.417	37.000	110.00	0.000
8	7: 0: 0	0.500	37.000	110.00	0.000
INITIAL SHUT-IN PERIOD					
9	7: 3: 0	0.550	37.000	110.00	0.000
10	7: 6: 0	0.600	39.000	110.00	2.000
11	7: 9: 0	0.650	41.000	110.00	2.000
12	7:12: 0	0.700	47.000	110.00	6.000
13	7:15: 0	0.750	57.000	110.00	10.000
14	7:18: 0	0.800	63.000	110.00	6.000
15	7:21: 0	0.850	79.000	110.00	16.000
16	7:24: 0	0.900	99.000	110.00	20.000
17	7:27: 0	0.950	130.000	110.00	31.000
18	7:30: 0	1.000	168.000	110.00	38.000
19	7:33: 0	1.050	220.000	110.00	52.000
20	7:36: 0	1.100	283.000	110.00	63.000
21	7:39: 0	1.150	363.000	110.00	80.000
22	7:42: 0	1.200	440.000	110.00	77.000
23	7:45: 0	1.250	504.000	110.00	64.000
24	7:48: 0	1.300	563.000	110.00	59.000
25	7:51: 0	1.350	588.000	110.00	25.000
FINAL FLOW PERIOD					
26	7:52: 0	1.367	49.000	110.00	-539.000
27	7:55:59	1.433	49.000	110.00	0.000
28	8: 1: 0	1.517	49.000	110.00	0.000
29	8: 6: 0	1.600	49.000	110.00	0.000
30	8:10:59	1.683	49.000	110.00	0.000
31	8:16: 0	1.767	49.000	110.00	0.000
32	8:21: 0	1.850	49.000	110.00	0.000
33	8:25:59	1.933	49.000	110.00	0.000
34	8:31: 0	2.017	49.000	110.00	0.000
35	8:36: 0	2.100	49.000	110.00	0.000
FINAL SHUT-IN PERIOD					
36	8:38:59	2.150	50.000	110.00	1.000
37	8:41:59	2.200	52.000	110.00	2.000
38	8:45: 0	2.250	54.000	110.00	2.000
39	8:48: 0	2.300	62.000	110.00	8.000
40	8:51: 0	2.350	70.000	110.00	8.000
41	8:53:59	2.400	77.000	110.00	7.000
42	8:56:59	2.450	92.000	110.00	15.000
43	9: 0: 0	2.500	114.000	110.00	22.000
44	9: 3: 0	2.550	142.000	110.00	28.000
45	9: 6: 0	2.600	175.000	110.00	33.000
46	9: 8:59	2.650	219.000	110.00	44.000
47	9:11:59	2.700	279.000	110.00	60.000
48	9:15: 0	2.750	339.000	110.00	60.000

COMPANY : HUTCHINSON OIL COMPANY
WELL : #1
GAUGE # : 3659
DATE : 29/ 7/90

FIELD : ALPERS
JOB # : 16467
DEPTH : 3550
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	9:18: 0	2.800	398.000	110.00	59.000
50	9:21: 0	2.850	450.000	110.00	52.000
51	9:23:59	2.900	504.000	110.00	54.000
52	9:26:59	2.950	544.000	110.00	40.000
53	9:30: 0	3.000	589.000	110.00	45.000
54	9:33: 0	3.050	614.000	110.00	25.000
55	9:36: 0	3.100	643.000	110.00	29.000
56	9:38:59	3.150	674.000	110.00	31.000
57	9:41:59	3.200	703.000	110.00	29.000

WESTERN TESTING CO. INC.



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 16468

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

WICHITA, KANSAS 67201

Elevation

Formation

ARB

Eff. Pay

Ft.

District

GREAT BEND Date 7-30-90

Customer Order No.

COMPANY NAME HUTCHINSON OIL CO

ADDRESS 105 S. BROADWAY SUITE 470 WICHITA, KS 67202

LEASE AND WELL NO. ALPERS #1

COUNTY STAFFORD STATE KS

Sec. 19 Twp 22^S Rge. 12^W

Mail Invoice To SAME

Co. Name

Alpers #1

Address

No. Copies Requested REG

Mail Charts To SAME

Address

No. Copies Requested REG

Formation Test No. 5 Interval Tested From 3739 ft. to 3750 ft. Total Depth 3750 ft.

Packer Depth 3739 ft. Size 6 3/8 in.

Packer Depth ft. Size in.

Packer Depth 3734 ft. Size 6 3/8 in.

Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3742 ft.

Recorder Number 3659 Cap. 4000

Bottom Recorder Depth (Outside) 3745 ft.

Recorder Number 4339 Cap. 4300

Below Straddle Recorder Depth ft.

Recorder Number Cap.

Drilling Contractor H-30 #7

Drill Collar Length I. D. in.

Mud Type CHEMICAL Viscosity 49

Weight Pipe Length I. D. in.

Weight 9.3 Water Loss 16.5 cc.

Drill Pipe Length 3717 I. D. 3.8 in.

Chlorides 10000 P.P.M.

Test Tool Length 22 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number

Anchor Length 11 ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out

Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

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

Blow: WEAK TO STRONG OFF BOTTOM BUCKET 7 MIN

WEAK TO STRONG OFF BOTTOM 7 MIN

Recovered 240 ft. of CLEAN OIL 34 GRAVITY

Recovered 60 ft. of S. WATER

Recovered ft. of

Recovered ft. of

Chlorides 29000 P.P.M. Sample Jars used

Remarks:

240 oil
60 w

Time On Location 500 A.M. P.M.

Time Pick Up Tool 615 A.M. P.M.

Time Off Location 100 A.M. P.M.

Time Set Packer(s) 725 A.M. P.M.

Time Started Off Bottom 955 A.M. P.M.

Maximum Temperature 115

Initial Hydrostatic Pressure (A) 1902 P.S.I.
Initial Flow Period Minutes 15 (B) 71 P.S.I. to (C) 81 P.S.I.
Initial Closed In Period Minutes 30 (D) 1253 P.S.I.
Final Flow Period Minutes 45 (E) 102 P.S.I. to (F) 142 P.S.I.
Final Closed In Period Minutes 60 (G) 1236 P.S.I.
Final Hydrostatic Pressure (H) 1902 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

Norman Hicbel Thank You
0830

FIELD INVOICE

Open Hole Test \$ 450
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 7-20-90 Test Ticket No. 16468
 Recorder No. 3659 Capacity 4000 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature 115 °P
 Time Given _____ Time Computed _____

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mod.	<u>1917</u> P.S.I.	Open Tool	<u>7:25 AM</u>	
B First Initial Flow Pressure	<u>56</u> P.S.I.	First Flow Pressure	<u>15</u> Mins	<u>15</u> Mins
C First Final Flow Pressure	<u>62</u> P.S.I.	Initial Closed-In Pressure	<u>19</u> Mins	<u>20</u> Mins
D Initial Closed-In Pressure	<u>1264</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins	<u>45</u> Mins
E Second Initial Flow Pressure	<u>88</u> P.S.I.	Final Closed-In Pressure	<u>60</u> Mins	<u>60</u> Mins
F Second Final Flow Pressure	<u>146</u> P.S.I.			
G Final Closed-In Pressure	<u>1259</u> P.S.I.			
H Final Hydrostatic Mod.	<u>1900</u> P.S.I.			

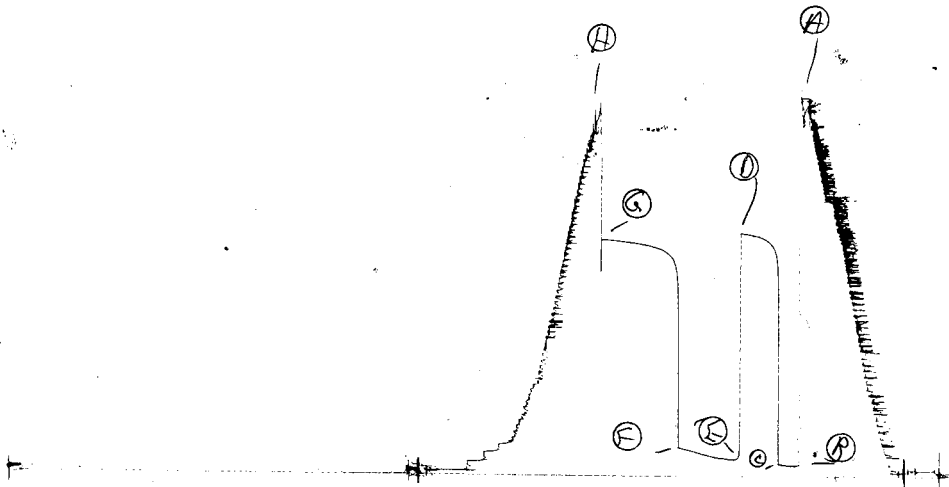
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Loc.		Breakdown: _____ Loc.		Breakdown: _____ Loc.		Breakdown: _____ Loc.	
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>56</u>	0	<u>62</u>	0	<u>88</u>	0	<u>146</u>
P 2 5	<u>56</u>	3	<u>870</u>	5	<u>88</u>	3	<u>827</u>
P 3 10	<u>58</u>	6	<u>1166</u>	10	<u>90</u>	6	<u>1107</u>
P 4 15	<u>62</u>	9	<u>1208</u>	15	<u>95</u>	9	<u>1141</u>
P 5 20		12	<u>1216</u>	20	<u>100</u>	12	<u>1160</u>
P 6 25		15	<u>1238</u>	25	<u>109</u>	15	<u>1176</u>
P 7 30		18	<u>1247</u>	30	<u>119</u>	18	<u>1185</u>
P 8 35		21	<u>1252</u>	35	<u>129</u>	21	<u>1190</u>
P 9 40		24	<u>1256</u>	40	<u>139</u>	24	<u>1196</u>
P10 45		27	<u>1260</u>	45	<u>146</u>	27	<u>1201</u>
P11 50		30	<u>1264</u>	50		30	<u>1206</u>
P12 55		33		55		33	<u>1209</u>
P13 60		36		60		36	<u>1218</u>
P14 65		39		65		39	<u>1215</u>
P15 70		42		70		42	<u>1218</u>
P16 75		45		75		45	<u>1220</u>
P17 80		48		80		48	<u>1222</u>
P18 85		51		85		51	<u>1224</u>
P19 90		54		90		54	<u>1227</u>
P20 95		57		95		57	<u>1228</u>
100		60		100		60	<u>1229</u>

3659

KT 16468

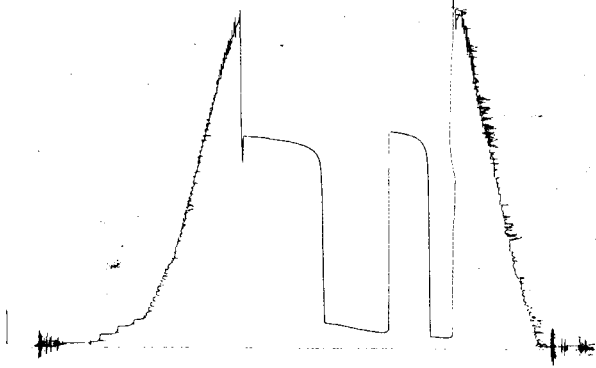
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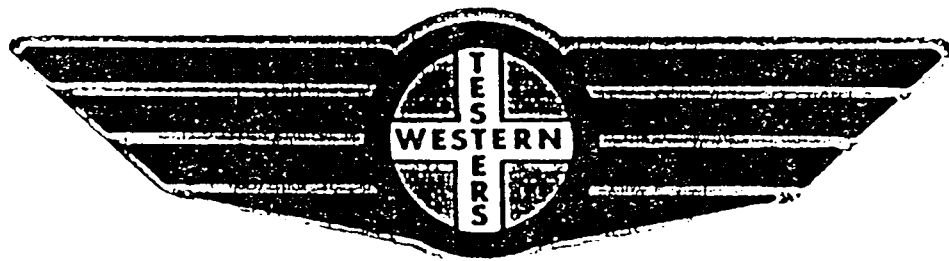
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KT 16468

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	7-30-90	TICKET	:	16468
CUSTOMER	:	HUTCHINSON OIL COMPANY	LEASE	:	ALPERS
WELL	:	#1 TEST: 5	GEOLOGIST	:	R. LILAK
ELEVATION	:	1876 K.B.	FORMATION	:	ARBUCKLE
SECTION	:	19	TOWNSHIP	:	22S
RANGE	:	12W	STATE	:	KANSAS
GAUGE SN#	:	3659	CLOCK	:	12
		COUNTY :	STAFFORD		
		RANGE :	4000		

INTERVAL FROM	:	3739	TO	:	3750	TOTAL DEPTH	:	3750
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3739	SIZE	:	6.63			
PACKER DEPTH	:	3734	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	H-30 #7			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	49
WEIGHT	:	9.3	WATER LOSS (CC)	:	16.5
CHLORIDES (PPM)	:	10000			
JARS-MAKE	:		SERIAL NUMBER	:	
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3717	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	22	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	11	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 TO STRONG BLOW OFF BOTTOM OF BUCKET
BLOW COMMENT #2 : IN 7 MINUTES DURING BOTH FLOW PERIODS.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 240 FT OF: CLEAN OIL
RECOVERED : 0 FT OF: 34 GRAVITY CORRECTED
RECOVERED : 60 FT OF: SALT WATER
RECOVERED : 0 FT OF: CHLORIDES 28000 P.P.M.

Total Barrels Fluid = 4.21
Total Fluid Prod Rate = 100.99 BFPD
Indicated Oil Rate = 80.79 BOPD
Indicated Wtr Rate = 20.20 BWPD
Corrected Oil Rate = 81.84 BOPD
Corrected Wtr Rate = 20.46 BWPD

REMARK 1 :
REMARK 2 : 720 FT. GAS ABOVE FLUID
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 7:25 A.M. TIME STARTED OFF BOTTOM : 9:55 A.M.
WELL TEMPERATURE : 115
INITIAL HYDROSTATIC PRESSURE (A) 1917
INITIAL FLOW PERIOD MIN: 15 (B) 56 PSI TO (C) : 62
INITIAL CLOSED IN PERIOD MIN: 30 (D) 1264
FINAL FLOW PERIOD MIN: 45 (E) 88 PSI TO (F) : 146
FINAL CLOSED IN PERIOD MIN: 60 (G) 1229
FINAL HYDROSTATIC PRESSURE (H) 1900

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HUTCHINSON OIL COMPANY
RIG : STAFFORD-KANSAS
FIELD : ALPERS
WELL : #1
DATE : 7-30-90
GAUGE NO : 3659

OPERATIONAL COMMENTS

720 FT. GAS ABOVE FLUID

COMPANY : HUTCHINSON OIL COMPANY
WELL : #1
GAUGE # : 3659
DATE : 30/ 7/90

FIELD : ALPERS
JOB # : 16468
DEPTH : 3750
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-F(i-1)
INITIAL FLOW PERIOD					
2	7:25: 0	0.000	56.000	115.00	0.000
3	7:29:59	0.083	56.000	115.00	0.000
4	7:35: 0	0.167	58.000	115.00	2.000
5	7:40: 0	0.250	62.000	115.00	4.000
INITIAL SHUT-IN PERIOD					
6	7:43: 0	0.300	870.000	115.00	808.000
7	7:46: 0	0.350	1166.000	115.00	296.000
8	7:49: 0	0.400	1208.000	115.00	42.000
9	7:52: 0	0.450	1226.000	115.00	18.000
10	7:55: 0	0.500	1238.000	115.00	12.000
11	7:58: 0	0.550	1247.000	115.00	9.000
12	8: 1: 0	0.600	1252.000	115.00	5.000
13	8: 4: 0	0.650	1256.000	115.00	4.000
14	8: 7: 0	0.700	1260.000	115.00	4.000
15	8:10: 0	0.750	1264.000	115.00	4.000
FINAL FLOW PERIOD					
16	8:11: 0	0.767	88.000	115.00	-1176.000
17	8:14:59	0.833	88.000	115.00	0.000
18	8:20: 0	0.917	90.000	115.00	2.000
19	8:25: 0	1.000	95.000	115.00	5.000
20	8:29:59	1.083	100.000	115.00	5.000
21	8:35: 0	1.167	109.000	115.00	9.000
22	8:40: 0	1.250	119.000	115.00	10.000
23	8:44:59	1.333	129.000	115.00	10.000
24	8:50: 0	1.417	139.000	115.00	10.000
25	8:55: 0	1.500	146.000	115.00	7.000
FINAL SHUT-IN PERIOD					
26	8:58: 0	1.550	827.000	115.00	681.000
27	9: 1: 0	1.600	1107.000	115.00	280.000
28	9: 4: 0	1.650	1141.000	115.00	34.000
29	9: 7: 0	1.700	1160.000	115.00	19.000
30	9:10: 0	1.750	1176.000	115.00	16.000
31	9:13: 0	1.800	1185.000	115.00	9.000
32	9:16: 0	1.850	1190.000	115.00	5.000
33	9:19: 0	1.900	1196.000	115.00	6.000
34	9:22: 0	1.950	1201.000	115.00	5.000
35	9:25: 0	2.000	1206.000	115.00	5.000
36	9:28: 0	2.050	1209.000	115.00	3.000
37	9:31: 0	2.100	1213.000	115.00	4.000
38	9:34: 0	2.150	1215.000	115.00	2.000
39	9:37: 0	2.200	1218.000	115.00	3.000
40	9:40: 0	2.250	1220.000	115.00	2.000
41	9:43: 0	2.300	1222.000	115.00	2.000
42	9:46: 0	2.350	1224.000	115.00	2.000
43	9:49: 0	2.400	1227.000	115.00	3.000
44	9:52: 0	2.450	1228.000	115.00	1.000
45	9:55: 0	2.500	1229.000	115.00	1.000