



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 11944

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

Elevation N/A Formation KC Eff. Pay — Ft.

COMPANY NAME H225 District GT, Bend Date 10-13-87 Customer Order No. —
ADDRESS 25th & Vine ST, HAY, KS. 67601

LEASE AND WELL NO. GATTON #B-1 COUNTY STAFFORD STATE KS. Sec. 20 Twp 22 Rge. 11

Mail Invoice To GATTON B-1 Same No. Copies Requested 5
Co. Name to Musgrove Same Address —

Mail Charts To to Musgrove Same No. Copies Requested 5
Address —

Formation Test No. 1 Interval Tested From 3391 ft. to 3450 ft. Total Depth 3450 ft.

Packer Depth 3386 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 3391 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3442 ft. Recorder Number 13759 Cap. 3900

Bottom Recorder Depth (Outside) 3445 ft. Recorder Number 4376 Cap. 4000

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

Drilling Contractor H-30 rig #2 Drill Collar Length — I. D. — in.

Mud Type Chemical Viscosity 53 Weight Pipe Length — I. D. — in.

Weight 9.2 Water Loss 13.2 cc. Drill Pipe Length 3370 I. D. 3.8 in.

Chlorides 10000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Wells: Make — Serial Number — Anchor Length 59 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 XH in.

Flow: IF - Very Weak Blow died in 10 min
FF - No Blow Flushed Tool

Recovered 30 ft. of Mud w/scum of oil in Grindout

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Chlorides — P.P.M. Sample Jars used 1 Remarks: 3W

Time On Location 1:10 A.M. Time Pick Up Tool 4:10 A.M. Time Off Location 9:10 A.M.

Time Set Packer(s) 5:45 A.M. Time Started Off Bottom 7:05 A.M. Maximum Temperature 105°

Initial Hydrostatic Pressure (A) 1759 P.S.I.

Initial Flow Period Minutes 20 (B) 76 P.S.I. to (C) 76 P.S.I.

Initial Closed In Period Minutes 20 (D) 620 P.S.I.

Final Flow Period Minutes 20 (E) 95 P.S.I. to (F) 95 P.S.I.

Final Closed In Period Minutes 20 (G) 190 P.S.I.

Final Hydrostatic Pressure (H) 1740 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 Ray Schwager
Signature of Customer or his authorized representative

Western Representative Ray Schwager Thank you

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 450

WESTERN TESTING CO., INC.

Pressure Data

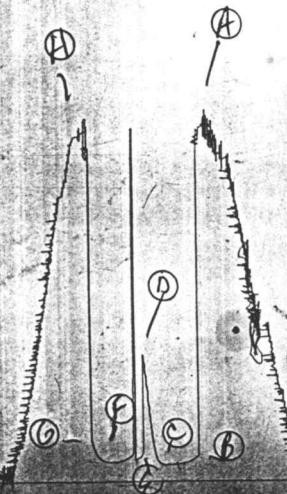
Date 10 13 87 Test Ticket No. 11944
 Recorder No. 13759 Capacity 3900 Location _____ Ft. _____
 Block No. _____ Elevation _____ Well Temperature 105 °F
 Point _____ Pressure _____ Time Given _____ Time Computed _____
 A Initial Hydrostatic Mud 1744 P.S.I. Open Tool 5:45 M _____
 B First Initial Flow Pressure 94 P.S.I. First Flow Pressure 20 Mins 25 Mins.
 C First Final Flow Pressure 52 P.S.I. Initial Closed-in Pressure 20 Mins 21 Mins.
 D Initial Closed-in Pressure 599 P.S.I. Second Flow Pressure 20 Mins 25 Mins.
 E Second Initial Flow Pressure 105 P.S.I. Final Closed-in Pressure 20 Mins 15 Mins.
 F Second Final Flow Pressure 63 P.S.I.
 G Final Closed-in Pressure 174 P.S.I.
 H Final Hydrostatic Mud 1706 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>94</u>	<u>0</u>	<u>52</u>	<u>0</u>	<u>105</u>	<u>0</u>	<u>63</u>
P 2 <u>5</u>	<u>73</u>	<u>3</u>	<u>63</u>	<u>5</u>	<u>75</u>	<u>3</u>	<u>64</u>
P 3 <u>10</u>	<u>60</u>	<u>6</u>	<u>99</u>	<u>10</u>	<u>82</u>	<u>6</u>	<u>74</u>
P 4 <u>15</u>	<u>55</u>	<u>9</u>	<u>177</u>	<u>15</u>	<u>71</u>	<u>9</u>	<u>99</u>
P 5 <u>20</u>	<u>53</u>	<u>12</u>	<u>285</u>	<u>20</u>	<u>64</u>	<u>12</u>	<u>138</u>
P 6 <u>25</u>	<u>52</u>	<u>15</u>	<u>418</u>	<u>25</u>	<u>63</u>	<u>15</u>	<u>174</u>
P 7 <u>30</u>		<u>18</u>	<u>531</u>	<u>30</u>		<u>18</u>	
P 8 <u>35</u>		<u>21</u>	<u>599</u>	<u>35</u>		<u>21</u>	
P 9 <u>40</u>		<u>24</u>		<u>40</u>		<u>24</u>	
P10 <u>45</u>		<u>27</u>		<u>45</u>		<u>27</u>	
P11 <u>50</u>		<u>30</u>		<u>50</u>		<u>30</u>	
P12 <u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	
P13 <u>60</u>		<u>36</u>		<u>60</u>		<u>36</u>	
P14 <u>65</u>		<u>39</u>		<u>65</u>		<u>39</u>	
P15 <u>70</u>		<u>42</u>		<u>70</u>		<u>42</u>	
P16 <u>75</u>		<u>45</u>		<u>75</u>		<u>45</u>	
P17 <u>80</u>		<u>48</u>		<u>80</u>		<u>48</u>	
P18 <u>85</u>		<u>51</u>		<u>85</u>		<u>51</u>	
P19 <u>90</u>		<u>54</u>		<u>90</u>		<u>54</u>	
P20 <u>95</u>		<u>57</u>		<u>95</u>		<u>57</u>	
<u>100</u>		<u>60</u>		<u>100</u>		<u>60</u>	

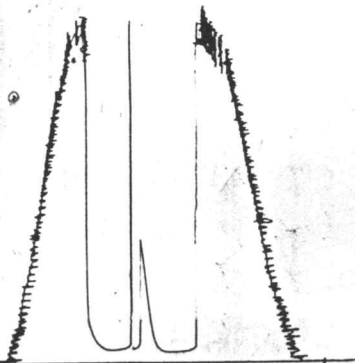
OK # 11944

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1/17/50

JK #11944



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY

HUPFER OIL AND GAS

LEASE & WELL NO.

GATTON B-1

SEC. 20

TWP. 22S

RGE. 11W

TEST NO. 1

DATE

10/13/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	10-13-87	TICKET	:	11944
CUSTOMER	:	HUPFER OIL & GAS	LEASE	:	GATTON
WELL	:	#B-1	TEST:	:	1
ELEVATION	:	NA	GEOLOGIST	:	J. MUSGROVE
SECTION	:	20	FORMATION	:	KANSAS
RANGE	:	11W	COUNTY	:	STAFFORD
Gauge SN#	:	13759	RANGE	:	3900
			STATE	:	KANSAS
			CLOCK	:	12

INTERVAL FROM	:	3391	TO	:	3450	TOTAL DEPTH	:	3450
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3386	SIZE	:	6.63			
PACKER DEPTH	:	3391	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	H-30	RIG #2		
MUD TYPE	:	CHEMICAL	VISCOSITY	:	53
WEIGHT	:	9.2	WATER LOSS (CC)	:	13.2
CHLORIDES (PPM)	:	10000			
JARS-MAKE	:	-	SERIAL NUMBER	:	
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3370	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	21	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	59	FT	ANCHOR SIZE	:	5.50
SURFACE CHOKE SIZE	:	.75	IN	BOTTOM CHOKE SIZE	:	.75
MAIN HOLE SIZE	:	7.875	IN	TOOL JOINT SIZE	:	4.5 XH

BLOW COMMENT #1 : INITIAL FLOW-VERY WEAK BLOW-DIED IN 10 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-NO BLOW-FLUSHED TOOL.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 30 FT OF: MUD / WITH SCUM OF OIL IN GRINDOUT

Total Barrels Fluid = 0.42
Total Fluid Prod Rate = 12.12 BFPD
Indicated Wtr Rate = 1.21 BWPD

REMARK 1 : FLUSHED TOOL FINAL FLOW.
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 5:45 PM

TIME STARTED OFF BOTTOM : 7:05 PM

WELL TEMPERATURE : 105

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 25

INITIAL CLOSED IN PERIOD MIN: 21

FINAL FLOW PERIOD MIN: 25

FINAL CLOSED IN PERIOD MIN: 15

FINAL HYDROSTATIC PRESSURE

(A) 1744

(B) 94

(D) 599

(E) 105

(G) 174

(H) 1706

PSI TO (C) : 52

PSI TO (F) : 63

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : HUPFER OIL & GAS
RIG : STAFFORD-KANSAS
FIELD : GATTON
WELL : #B-1
DATE : 10-13-87
GAUGE NO : 13759

OPERATIONAL COMMENTS

FLUSHED TOOL FINAL FLOW.

COMPANY : HUPFER OIL & GAS
WELL : #B-1
GAUGE # : 13759
DATE : 13/10/87

FIELD : GATTON
JOB # : 11944
DEPTH : 3450
TEST : FLUSHED TOOL FINAL FLOW.

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P P _i -P _(i-1)
1	5:45: 0	0.000	94.000	105.00	0.000
2	5:49:59	0.083	73.000	105.00	-21.000
3	5:55: 0	0.167	60.000	105.00	-13.000
4	6: 0: 0	0.250	55.000	105.00	-5.000
5	6: 4:59	0.333	53.000	105.00	-2.000
6	6:10: 0	0.417	52.000	105.00	-1.000
7	6:13: 0	0.467	63.000	105.00	11.000
8	6:16: 0	0.517	99.000	105.00	36.000
9	6:19: 0	0.567	177.000	105.00	78.000
10	6:22: 0	0.617	285.000	105.00	108.000
11	6:25: 0	0.667	418.000	105.00	133.000
12	6:28: 0	0.717	531.000	105.00	113.000
13	6:31: 0	0.767	599.000	105.00	68.000
14	6:32: 0	0.783	105.000	105.00	-494.000
15	6:36: 0	0.850	75.000	105.00	-30.000
16	6:41: 0	0.933	82.000	105.00	7.000
17	6:46: 0	1.017	71.000	105.00	-11.000
18	6:51: 0	1.100	64.000	105.00	-7.000
19	6:56: 0	1.183	63.000	105.00	-1.000
20	6:59: 0	1.233	64.000	105.00	1.000
21	7: 2: 0	1.283	74.000	105.00	10.000
22	7: 5: 0	1.333	99.000	105.00	25.000
23	7: 8: 0	1.383	138.000	105.00	39.000
24	7:11: 0	1.433	174.000	105.00	36.000

WESTERN TESTING CO. INC.



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N^o 11945

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

WICHITA, KANSAS 67201

Elevation N/AFormation Simp + ConglEff. Pay Ft.District GT. BendDate 10-14-87Customer Order No. COMPANY NAME H285ADDRESS Hupfer Oil and GasLEASE AND WELL NO. 25th + Wine ST. Hays, KS. 67601COUNTY STAFFORD STATE KS. Sec. 20 Twp. 22 Rge. 11Mail Invoice To SAMECo. Name 1 to Musgrave sameAddress No. Copies Requested 5Mail Charts To Address No. Copies Requested 5Formation Test No. 2 Interval Tested From 3506 ft. to 3585 ft. Total Depth 3585 ft.Packer Depth 3501 ft. Size 6 5/8 in.Packer Depth ft. Size in.Packer Depth 3506 ft. Size 6 5/8 in.Packer Depth ft. Size in.Depth of Selective Zone Set Top Recorder Depth (Inside) 3508 ft.Recorder Number 4376 Cap. 4000Bottom Recorder Depth (Outside) 3511 ft.Recorder Number 13521 Cap. 4375Below Straddle Recorder Depth ft.Recorder Number Cap. Drilling Contractor H-30 rig #2Drill Collar Length I. D. in.Mud Type CHEMICAL Viscosity 47Weight Pipe Length I. D. in.Weight 9.3 Water Loss 24 cc.Drill Pipe Length 3485 I. D. 3.8 in.Chlorides 13000 P.P.M.Test Tool Length 21 ft. Tool Size 5 1/2 in.Jars: Make Serial Number Anchor Length 79 ft. Size 5 1/2 in.Did Well Flow? GAS Reversed Out NOSurface Choke Size 3/4 in. Bottom Choke Size 3/4 in.Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 XH in.Blow: IF - STRONG BLOW GAS TO SURFACE in 10 minFF - GAS TO SURFACERecovered 100 ft. of MudRecovered ft. of Recovered ft. of Recovered ft. of Recovered ft. of Chlorides P.P.M. Sample Jars used 2 Remarks: Time On Location 12:40 A.M. Time Pick Up Tool 1:00 P.M. Time Off Location 7:30 A.M.Time Set Packer(s) 2:10 A.M. Time Started Off Bottom 5:40 P.M. Maximum Temperature 107°Initial Hydrostatic Pressure (A) 1750 P.S.I.Initial Flow Period 45 Minutes (B) 50 P.S.I. to (C) 50 P.S.I.Initial Closed In Period 60 Minutes (D) 1133 P.S.I.Final Flow Period 45 Minutes (E) 50 P.S.I. to (F) 50 P.S.I.Final Closed In Period 60 Minutes (G) 1103 P.S.I.Final Hydrostatic Pressure (H) 1719 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 Jim Upshaw

Signature of Customer or his authorized representative

Western Representative Ray SchwagerThank you1925

FIELD INVOICE

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



GAS FLOW REPORT

No 5590

Date 10-14-87 Ticket 11945 Company Hupter Oil & Gas
 Well Name and No. GATTON #B-1 Dst No. 2 Interval Tested 3506-3585
 County STAFFORD State KS. Sec. 20 Twp. 22 Rg. 11

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 <i>GAS to SURFACE in 10 min</i>					
15	8 LB	1/4"			27000 CFPO
20	18 LB	1/4"			43,900 "
30	26 LB	1/4"			56,300 "
40	17 LB	1/2"			159,000 "
45	11 LB	1/2"			121,000 "

SECOND FLOW

<i>H₂O gauge</i>					
10	22	1"			121,000 CFPO
15	20	1"			115,000 "
20	20	1"			115,000 "
25	22	1"			121,000 "
30	22	1"			121,000 "
35	22	1"			121,000 "
40	22	1"			121,000 "
45	24	1"			126,000 "

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ 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 _____

Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 10-14-82 Test Ticket No. 11945
 Recorder No. 4376 Capacity 4000 Location _____ Ft. _____
 Block No. _____ Elevation _____ Well Temperature 107 °F
 Point _____ Pressure _____ Time Given _____ Time Computed _____
 Initial Hydrostatic Mud 1764 P.S.I. Open Tool 2:10 P M
 First Initial Flow Pressure 61 P.S.I. First Flow Pressure 45 Mins 45 Mins.
 First Final Flow Pressure 66 P.S.I. Initial Closed-in Pressure 60 Mins 60 Mins.
 Initial Closed-in Pressure 1134 P.S.I. Second Flow Pressure 45 Mins 45 Mins.
 Second Initial Flow Pressure 52 P.S.I. Final Closed-in Pressure 60 Mins 60 Mins.
 Second Final Flow Pressure 52 P.S.I.
 Final Closed-in Pressure 1119 P.S.I.
 Final Hydrostatic Mud 1735 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>61</u>	0	<u>66</u>	0	<u>52</u>	0	<u>52</u>
P 2 5	<u>61</u>	3	<u>483</u>	5		3	<u>469</u>
P 3 10	<u>61</u>	6	<u>860</u>	10		6	<u>866</u>
P 4 15	<u>64</u>	9	<u>1027</u>	15		9	<u>1046</u>
P 5 20	<u>64</u>	12	<u>1087</u>	20		12	<u>1083</u>
P 6 25	<u>66</u>	15	<u>1106</u>	25		15	<u>1097</u>
P 7 30	<u>66</u>	18	<u>1115</u>	30		18	<u>1101</u>
P 8 35	<u>66</u>	21	<u>1121</u>	35		21	<u>1102</u>
P 9 40	<u>66</u>	24	<u>1127</u>	40		24	<u>1106</u>
P10 45	<u>66</u>	27	<u>1128</u>	45	<u>52</u>	27	<u>1109</u>
P11 50		30	<u>1128</u>	50		30	<u>1113</u>
P12 55		33	<u>1128</u>	55		33	<u>1114</u>
P13 60		36	<u>1129</u>	60		36	<u>1115</u>
P14 65		39	<u>1129</u>	65		39	<u>1116</u>
P15 70		42	<u>1131</u>	70		42	<u>1117</u>
P16 75		45	<u>1133</u>	75		45	<u>1118</u>
P17 80		48	<u>1134</u>	80		48	<u>1119</u>
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60	<u>1134</u>	100		60	<u>1119</u>

OK # 11945

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OST
4376

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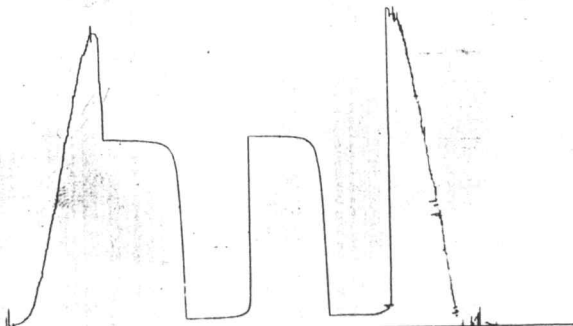
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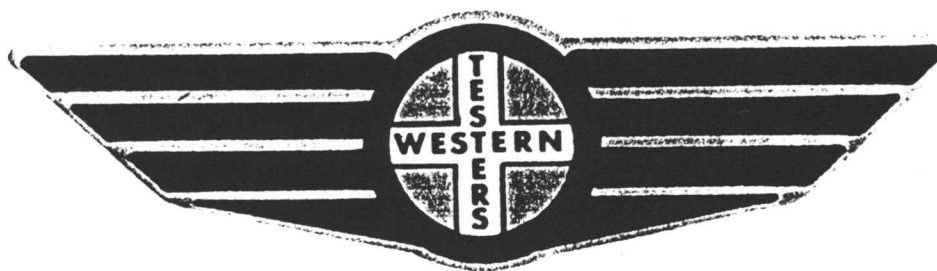
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Kit #11945
O



OST#2
13521

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY

HUPFER OIL AND GAS

LEASE & WELL NO.

GATTON B-1

SEC. 20

TWP. 22S

RGE. 11W

TEST NO. 2

DATE 10/14/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	10-14-87	TICKET	:	11945
CUSTOMER	:	HUPFER OIL & GAS	LEASE	:	GATTON
WELL	:	#B-1	TEST:	:	2
ELEVATION	:	NA	GEOLOGIST	:	J. MUSGROVE
SECTION	:	20	FORMATION	:	SIMP-CONG
RANGE	:	11W	TOWNSHIP	:	22S
GAUGE SN#	:	4376	STATE	:	KANSAS
		COUNTY :	CLOCK	:	12
		RANGE :			
		4000			

INTERVAL FROM	:	3506	TO	:	3585	TOTAL DEPTH	:	3585
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3501	SIZE	:	6.63			
PACKER DEPTH	:	3506	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	H-30	RIG #2		
MUD TYPE	:	CHEMICAL	VISCOSITY	:	47
WEIGHT	:	9.3	WATER LOSS (CC)	:	24
CHLORIDES (PPM)	:	13000			
JARS-MAKE	:	-	SERIAL NUMBER	:	-
DID WELL FLOW ?	:	GAS	REVERSED OUT ?	:	NO

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	:	21	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	79	FT	ANCHOR SIZE	:	5.50
SURFACE CHOKE SIZE	:	.75	IN	BOTTOM CHOKE SIZE	:	.75
MAIN HOLE SIZE	:	7.875	IN	TOOL JOINT SIZE	:	4.5 XH

BLOW COMMENT #1 : INITIAL FLOW-STRONG BLOW-GAS TO SURFACE IN 10 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-GAS TO SURFACE.
BLOW COMMENT #3 : SEE ATTACHED FLOW CHART.
BLOW COMMENT #4 :

RECOVERED : 60 FT OF: MUD

Total Barrels Fluid = 0.84
Total Fluid Prod Rate = 13.47 BFPD
Indicated Wtr Rate = 1.35 BWPD

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

SET PACKER(S) : 2:10 PM

TIME STARTED OFF BOTTOM : 5:40 PM

WELL TEMPERATURE : 107

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 45

INITIAL CLOSED IN PERIOD MIN: 60

FINAL FLOW PERIOD MIN: 45

FINAL CLOSED IN PERIOD MIN: 60

FINAL HYDROSTATIC PRESSURE

(A) 1764

(B) 61 PSI TO (C) : 66

(D) 1134

(E) 52 PSI TO (F) : 52

(G) 1119

(H) 1735

GAS FLOW REPORT

Date : 10-14-87	Ticket # : 11945
Customer : HUPFER OIL & GAS	Lease : GATTON
Well : #B-1 Test : 2	Geologist : J. MUSGROVE
Elevation (KB) : NA Formation : SIMP-CONG.	
Section : 20 Township : 22S	
Range : 11W County : STAFFORD	State : KANSAS
Gauge SN # : 4376 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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15	MERLA	1/4"	8	27000 CFPD
20		1/4"	18	43900 CFPD
30		1/4"	26	56300 CFPD
40		1/2"	17	159000 CFPD
45		1/2"	11	121000 CFPD

SECOND FLOW

=====

10	MERLA	1"	22 "	OF WTR 121000 CFPD
15			20	115000 CFPD
20			20	115000 CFPD
25			22	121000 CFPD
30			22	121000 CFPD
35			22	121000 CFPD
40			22	121000 CFPD
45			24	126000 CFPD

Gas Bottle SN # : 52
 Date Bottle Filled : 10-14-87
 Date to be Invoiced :

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : HUPFER OIL & GAS
RIG : STAFFORD-KANSAS
FIELD : GATTON
WELL : #B-1
DATE : 10-14-87
GAUGE NO : 4376

OPERATIONAL COMMENTS

COMPANY : HUPFER OIL & GAS
WELL : #8-1
GAUGE # : 4376
DATE : 14/10/87

FIELD : GATTON
JOB # : 11945
DEPTH : 3585
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	2:10: 0	0.000	61.000	107.00	0.000
2	2:14:59	0.083	61.000	107.00	0.000
3	2:20: 0	0.167	61.000	107.00	0.000
4	2:25: 0	0.250	61.000	107.00	0.000
5	2:29:59	0.333	64.000	107.00	3.000
6	2:35: 0	0.417	66.000	107.00	2.000
7	2:40: 0	0.500	66.000	107.00	0.000
8	2:44:59	0.583	66.000	107.00	0.000
9	2:50: 0	0.667	66.000	107.00	0.000
10	2:55: 0	0.750	66.000	107.00	0.000
11	2:58: 0	0.800	483.000	107.00	417.000
12	3: 1: 0	0.850	860.000	107.00	377.000
13	3: 4: 0	0.900	1027.000	107.00	167.000
14	3: 7: 0	0.950	1087.000	107.00	60.000
15	3:10: 0	1.000	1106.000	107.00	19.000
16	3:13: 0	1.050	1115.000	107.00	9.000
17	3:16: 0	1.100	1121.000	107.00	6.000
18	3:19: 0	1.150	1127.000	107.00	6.000
19	3:22: 0	1.200	1128.000	107.00	1.000
20	3:25: 0	1.250	1128.000	107.00	0.000
21	3:28: 0	1.300	1128.000	107.00	0.000
22	3:31: 0	1.350	1129.000	107.00	1.000
23	3:34: 0	1.400	1129.000	107.00	0.000
24	3:37: 0	1.450	1131.000	107.00	2.000
25	3:40: 0	1.500	1133.000	107.00	2.000
26	3:43: 0	1.550	1134.000	107.00	1.000
27	3:46: 0	1.600	1134.000	107.00	0.000
28	3:49: 0	1.650	1134.000	107.00	0.000
29	3:52: 0	1.700	1134.000	107.00	0.000
30	3:55: 0	1.750	1134.000	107.00	0.000
31	3:56: 0	1.767	52.000	107.00	-1082.000
32	3:59:59	1.833	52.000	107.00	0.000
33	4: 5: 0	1.917	52.000	107.00	0.000
34	4:10: 0	2.000	52.000	107.00	0.000
35	4:14:59	2.083	52.000	107.00	0.000
36	4:20: 0	2.167	52.000	107.00	0.000
37	4:25: 0	2.250	52.000	107.00	0.000
38	4:29:59	2.333	52.000	107.00	0.000
39	4:35: 0	2.417	52.000	107.00	0.000
40	4:40: 0	2.500	52.000	107.00	0.000
41	4:43: 0	2.550	469.000	107.00	417.000
42	4:46: 0	2.600	866.000	107.00	397.000
43	4:49: 0	2.650	1046.000	107.00	180.000
44	4:52: 0	2.700	1083.000	107.00	37.000
45	4:55: 0	2.750	1097.000	107.00	14.000
46	4:58: 0	2.800	1101.000	107.00	4.000
47	5: 1: 0	2.850	1103.000	107.00	2.000
48	5: 4: 0	2.900	1106.000	107.00	3.000
49	5: 7: 0	2.950	1109.000	107.00	3.000
50	5:10: 0	3.000	1113.000	107.00	4.000
51	5:13: 0	3.050	1114.000	107.00	1.000
52	5:16: 0	3.100	1115.000	107.00	1.000

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FIELD : GATTON
JOB # : 11945
DEPTH : 3585
TEST :
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WESTERN TESTING CO. INC.



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 11946

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

Elevation N/A Formation Arbuckle Eff. Pay — Ft.

District CT Bend Date 10-15-87 Customer Order No. —

COMPANY NAME Hupfer Oil & Gas

ADDRESS 25th & Vine ST. Hays, KS 67601

LEASE AND WELL NO. GATTON #B-1 COUNTY Stafford STATE KS. Sec. 20 Twp. 22^s Rge. 11^w

Mail Invoice To Sim Co. Name to Musgrave Address SAME No. Copies Requested 5

Mail Charts To to Musgrave Address SAME No. Copies Requested 5

Formation Test No. 3 Interval Tested From 3600 ft. to 3620 ft. Total Depth 3620 ft.

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

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

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3612 ft. Recorder Number 4376 Cap. 4000

Bottom Recorder Depth (Outside) 3615 ft. Recorder Number 13521 Cap. 4375

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

Drilling Contractor H-30 rig 2 Drill Collar Length — I. D. — in.

Mud Type Chemical Viscosity 47 Weight Pipe Length — I. D. — in.

Weight 9.1 Water Loss 18 cc. Drill Pipe Length 3579 I. D. 3.8 in.

Chlorides 13000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make — Serial Number — Anchor Length 20 ft. Size 5 1/2 in.

Did Well Flow? GAS 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: IF - STRONG BLOW BOTTOM of BUCKET in 4 min.

FF - STRONG BLOW GAS TO SURFACE in 27 min. TO WEAK TO GAUGE

Recovered 120 ft. of Clean Gassy Oil GRAVITY 46

Recovered 60 ft. of Muddy Gassy Oil 12% GAS 34% mud 54% oil

Recovered 60 ft. of 12% oil 58% GAS 30% mud

Recovered — ft. of —

Recovered — ft. of —

Chlorides — P.P.M. Sample Jars used 4 Remarks: 159.6 Oil 3.84W

Time On Location 3:45 A.M. Time Pick Up Tool 4:25 A.M. Time Off Location — P.M.

Time Set Packer(s) 5:45 A.M. Time Started Off Bottom 8:45 A.M. Maximum Temperature 107°

Initial Hydrostatic Pressure — (A) 1800 P.S.I.

Initial Flow Period — Minutes 45 (B) 60 P.S.I. to (C) 81 P.S.I.

Initial Closed In Period — Minutes 45 (D) 1072 P.S.I.

Final Flow Period — Minutes 45 (E) 101 P.S.I. to (F) 111 P.S.I.

Final Closed In Period — Minutes 45 (G) 1042 P.S.I.

Final Hydrostatic Pressure — (H) 1790 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 Sim Musgrave
Signature of Customer or his authorized representative

Western Representative Ray Schwager

Thank you

FIELD INVOICE

Open Hole Test ✓ 150
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL W

WESTERN TESTING CO., INC.

Pressure Data

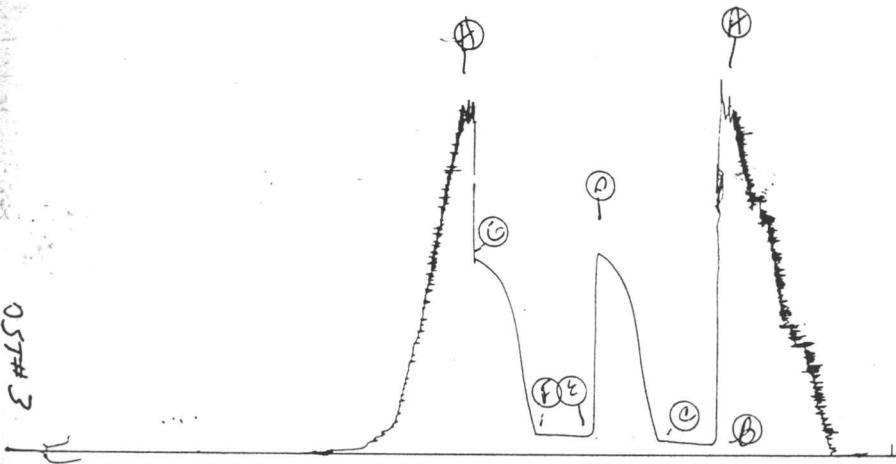
Date 10-15-87 Test Ticket No. 11944
 Recorder No. 4376 Capacity 4000 Location _____ Ft. _____
 Block No. _____ Elevation _____ Well Temperature 107 °F
 Point _____ Pressure _____
 A Initial Hydrostatic Mud 1841 P.S.I. Open Tool 5:45 M
 B First Initial Flow Pressure 59 P.S.I. First Flow Pressure 45 Mins. 45 Mins.
 C First Final Flow Pressure 80 P.S.I. Initial Closed-in Pressure 45 Mins. 45 Mins.
 D Initial Closed-in Pressure 1070 P.S.I. Second Flow Pressure 45 Mins. 45 Mins.
 E Second Initial Flow Pressure 102 P.S.I. Final Closed-in Pressure 45 Mins. 45 Mins.
 F Second Final Flow Pressure 112 P.S.I.
 G Final Closed-in Pressure 1036 P.S.I.
 H Final Hydrostatic Mud 1824 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>59</u>	0	<u>80</u>	0	<u>102</u>	0	<u>112</u>
P 2 5	<u>59</u>	3	<u>138</u>	5	<u>5</u>	3	<u>210</u>
P 3 10	<u>59</u>	6	<u>216</u>	10	<u>102</u>	6	<u>312</u>
P 4 15	<u>62</u>	9	<u>316</u>	15	<u>105</u>	9	<u>425</u>
P 5 20	<u>66</u>	12	<u>427</u>	20	<u>107</u>	12	<u>521</u>
P 6 25	<u>68</u>	15	<u>580</u>	25	<u>109</u>	15	<u>627</u>
P 7 30	<u>72</u>	18	<u>711</u>	30	<u>109</u>	18	<u>719</u>
P 8 35	<u>76</u>	21	<u>812</u>	35	<u>110</u>	21	<u>844</u>
P 9 40	<u>78</u>	24	<u>872</u>	40	<u>111</u>	24	<u>891</u>
P 10 45	<u>80</u>	27	<u>920</u>	45	<u>112</u>	27	<u>928</u>
P 11 50		30	<u>960</u>	50		30	<u>954</u>
P 12 55		33	<u>987</u>	55		33	<u>977</u>
P 13 60		36	<u>1014</u>	60		36	<u>994</u>
P 14 65		39	<u>1037</u>	65		39	<u>1012</u>
P 15 70		42	<u>1055</u>	70		42	<u>1027</u>
P 16 75		45	<u>1070</u>	75		45	<u>1036</u>
P 17 80		48		80		48	
P 18 85		51		85		51	
P 19 90		54		90		54	
P 20 95		57		95		57	
100		60		100		60	

Kt # 11946

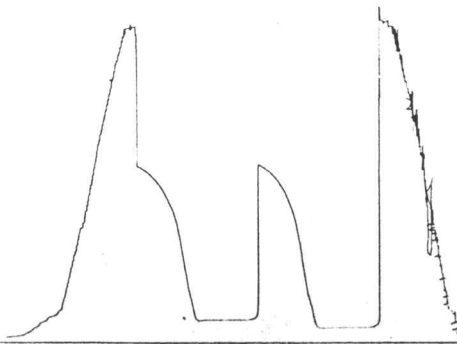
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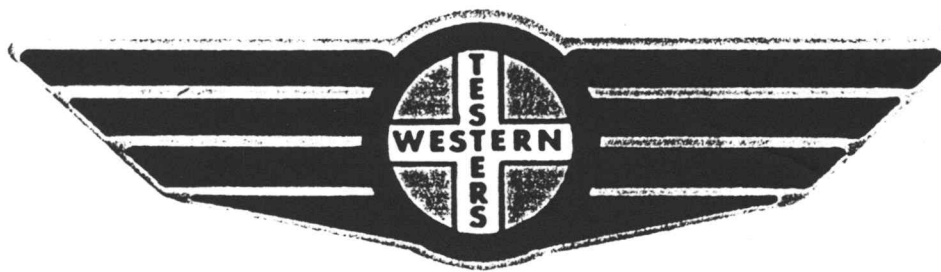
JK # 11946

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057#3



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY

HUFFER OIL AND GAS

LEASE & WELL NO.

GATTON B-1

SEC. 20

TWP. 22S

RGE. 11W

TEST NO. 3

DATE 10/15/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	10-15-87	TICKET	:	11946	
CUSTOMER	:	HUPFER OIL & GAS	LEASE	:	GATTON	
WELL	:	#B-1	TEST:	:	3	
ELEVATION	:	NA	GEOLOGIST	:	J.MUSGROVE	
SECTION	:	20	FORMATION	:	ARBUCKLE	
RANGE	:	11W	TOWNSHIP	:	22S	
GAUGE SN#	:	4376	STATE	:	KANSAS	
		COUNTY :	STAFFORD		CLOCK :	12
		RANGE :	4000			

INTERVAL FROM	:	3600	TO	:	3620	TOTAL DEPTH	:	3620
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3595	SIZE	:	6.63			
PACKER DEPTH	:	3600	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	H-30	RIG #2				
MUD TYPE	:	CHEMICAL	VISCOSITY	:	47		
WEIGHT	:	9.1	WATER LOSS (CC)	:	18		
CHLORIDES (PPM)	:	13000					
JARS-MAKE	:	-	SERIAL NUMBER	:	-		
DID WELL FLOW ?	:	GAS	REVERSED OUT ?	:	NO		

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3579	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	21	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	20	FT	ANCHOR SIZE	:	5.50
SURFACE CHOKE SIZE	:	.75	IN	BOTTOM CHOKE SIZE	:	.75
MAIN HOLE SIZE	:	7.875	IN	TOOL JOINT SIZE	:	4.5 XH

BLOW COMMENT #1 : INITIAL FLOW-STRONG-BOTTOM OF BUCKET IN 4 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-STRONG BLOW-GAS TO SURFACE IN 27 MINUTES-
TOO WEAK TO GAUGE.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 120 FT OF: CLEAN GASSY OIL GRAVITY 46
RECOVERED : 60 FT OF: MUDDY GASSY OIL
12% GAS-34% MUD-54% OIL
RECOVERED : 60 FT OF: 12% OIL-58% GAS-30% MUD

Total Barrels Fluid = 3.37
Total Fluid Prod Rate = 53.86 BFPD
Indicated Oil Rate = 35.82 BOPD
Indicated Wtr Rate = 0.86 BWPD
Corrected Oil Rate = 34.46 BOPD
Corrected Wtr Rate = 0.83 BWPD

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

SET PACKER(S) : 5:45 AM

TIME STARTED OFF BOTTOM : 8:45 AM

WELL TEMPERATURE : 107

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 45

INITIAL CLOSED IN PERIOD MIN: 45

FINAL FLOW PERIOD MIN: 45

FINAL CLOSED IN PERIOD MIN: 45

FINAL HYDROSTATIC PRESSURE

(A) 1841

(B) 59 PSI TO (C) : 80

(D) 1070

(E) 102 PSI TO (F) : 112

(G) 1036

(H) 1824

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : HUPFER OIL & GAS
RIG : STAFFORD-KANSAS
FIELD : GATTON
WELL : #B-1
DATE : 10-15-87
GAUGE NO : 4376

OPERATIONAL COMMENTS

PANY : HUPFER OIL & GAS
: #B-1
SE # : 4376
: 15/10/87

FIELD : GATTON
JOB # : 11946
DEPTH : 3620
TEST :

	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	5:45: 0	0.000	59.000	107.00	0.000
2	5:49:59	0.083	59.000	107.00	0.000
3	5:55: 0	0.167	59.000	107.00	0.000
4	6: 0: 0	0.250	62.000	107.00	3.000
5	6: 4:59	0.333	66.000	107.00	4.000
6	6:10: 0	0.417	68.000	107.00	2.000
7	6:15: 0	0.500	72.000	107.00	4.000
8	6:19:59	0.583	76.000	107.00	4.000
9	6:25: 0	0.667	78.000	107.00	2.000
0	6:30: 0	0.750	80.000	107.00	2.000
1	6:33: 0	0.800	138.000	107.00	58.000
2	6:36: 0	0.850	216.000	107.00	78.000
3	6:39: 0	0.900	316.000	107.00	100.000
4	6:42: 0	0.950	427.000	107.00	111.000
5	6:45: 0	1.000	580.000	107.00	153.000
6	6:48: 0	1.050	711.000	107.00	131.000
7	6:51: 0	1.100	812.000	107.00	101.000
8	6:54: 0	1.150	873.000	107.00	61.000
9	6:57: 0	1.200	920.000	107.00	47.000
0	7: 0: 0	1.250	960.000	107.00	40.000
1	7: 3: 0	1.300	987.000	107.00	27.000
2	7: 6: 0	1.350	1014.000	107.00	27.000
3	7: 9: 0	1.400	1037.000	107.00	23.000
4	7:12: 0	1.450	1055.000	107.00	18.000
5	7:15: 0	1.500	1070.000	107.00	15.000
6	7:16: 0	1.517	102.000	107.00	-968.000
7	7:19:59	1.583	102.000	107.00	0.000
8	7:25: 0	1.667	102.000	107.00	0.000
9	7:30: 0	1.750	105.000	107.00	3.000
0	7:34:59	1.833	107.000	107.00	2.000
1	7:40: 0	1.917	109.000	107.00	2.000
2	7:45: 0	2.000	109.000	107.00	0.000
3	7:49:59	2.083	110.000	107.00	1.000
4	7:55: 0	2.167	111.000	107.00	1.000
5	8: 0: 0	2.250	112.000	107.00	1.000
6	8: 3: 0	2.300	210.000	107.00	98.000
7	8: 6: 0	2.350	312.000	107.00	102.000
8	8: 9: 0	2.400	435.000	107.00	123.000
9	8:12: 0	2.450	571.000	107.00	136.000
0	8:15: 0	2.500	697.000	107.00	126.000
1	8:18: 0	2.550	779.000	107.00	82.000
2	8:21: 0	2.600	844.000	107.00	65.000
3	8:24: 0	2.650	891.000	107.00	47.000
4	8:27: 0	2.700	928.000	107.00	37.000
5	8:30: 0	2.750	956.000	107.00	28.000
6	8:33: 0	2.800	977.000	107.00	21.000
7	8:36: 0	2.850	994.000	107.00	17.000
8	8:39: 0	2.900	1012.000	107.00	18.000
9	8:42: 0	2.950	1027.000	107.00	15.000
0	8:45: 0	3.000	1036.000	107.00	9.000