



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 16357

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

Elevation 2858 A.B. Formation Macmoten Eff. Pay _____ Ft.

District 10 Garden City Date 9-18-90 Customer Order No. _____

COMPANY NAME W.L. Hartman Trust

ADDRESS P.O. Box 54 Wichita, Kansas 67202

LEASE AND WELL NO. Dady "C" #1 COUNTY Haskell STATE Ks. Sec. 36 Twp. 28S Rge. 31W

Mail Invoice To W.L. Hartman Trust Same No. Copies Requested Reg.
Co. Name Address

Mail Charts To W.L. Hartman Trust Same No. Copies Requested Reg.
Address

Formation Test No. 1 Interval Tested From 4764 ft. to 4805 ft. Total Depth 4805 ft.

Packer Depth 4759 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4764 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4771 ft.

Recorder Number 3849 Cap. 4200

Bottom Recorder Depth (Outside) 4774 ft.

Recorder Number 2604 Cap. 4150

Below Straddle Recorder Depth _____ ft.

Recorder Number _____ Cap. _____

Drilling Contractor Cheyenne Rig 4

Drill Collar Length 304 I. D. 2 1/4 in.

Mud Type Chemical Viscosity 51

Weight Pipe Length _____ I. D. _____ in.

Weight 9.0 Water Loss 6.4 cc.

Drill Pipe Length 4428 I. D. 3.8 in.

Chlorides 3500 P.P.M.

Test Tool Length 32 ft. Tool Size 5 1/2 in.

Jars: Make W.T.C. Serial Number 411

Anchor Length 41 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 3/8 in. Tool Joint Size 4 1/2 X.H. in.

Blow: Weak to Strong in 1 min. Gas to surface 14 min. See Flow Chart. I.F.

Fast to Strong in 2 min. See Flow Chart. F.F.

Recovered 80 ft. of Mud cut Gas & Oil 7° Gas 58° Oil 35° Mud

Recovered 300 ft. of Slightly Mud cut Gas & Oil 30° Gas 50° Oil 20° Mud

Recovered 180 ft. of Slightly Gas cut Oil 3° Gas 97° Oil 38 Gravity

Recovered _____ ft. of _____

Recovered _____ ft. of Total Fluid Rec. 560'

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

371.01
8.8 WTR

Time On Location 12:30 A.M. Time Pick Up Tool 3:00 A.M. Time Off Location _____ P.M.

Time Set Packer(s) 5:15 A.M. Time Started Off Bottom 9:00 A.M. Maximum Temperature 122° F

Initial Hydrostatic Pressure _____ (A) 2381 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 117 P.S.I. to (C) 106 P.S.I.

Initial Closed In Period _____ Minutes 45 (D) 573 P.S.I.

Final Flow Period _____ Minutes 60 (E) 142 P.S.I. to (F) 185 P.S.I.

Final Closed In Period _____ Minutes 90 (G) 566 P.S.I.

Final Hydrostatic Pressure _____ (H) 2296 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature]
Signature of Customer or his authorized representative

Western Representative [Signature] 1920

Thank you

FIELD INVOICE

Open Hole Test \$ ✓ 550
Misrun \$ _____
Straddle Test \$ _____
Jars \$ ✓ 225
Selective Zone \$ _____
Safety Joint \$ ✓ 25
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Fluid Sampler \$ ✓ 200
Extra Charts \$ _____
Insurance \$ _____
Telecopier \$ _____
TOTAL \$ _____



GAS FLOW REPORT

No 4803

Date 9-18-90 Ticket 16357 Company W.L. Hartman Trust
 Well Name and No. Daddy "C" #1 Dst No. 1 Interval Tested 4764-4805
 County Haskell State Kansas Sec. 36 Twp. 28 S. Rg. 31 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					
<i>Water Inches</i>					
20	23	1/2"			Gas to Surface in 14 Min.
30	5	"			29,400 C.F.P.D.
					14,100 "

SECOND FLOW					
10	6	1/2"			15,400 C.F.P.D.
20	11	3/4"			5,600 "
30	14	"			6,330 "
40	12	"			5,860 "
50	7	"			4,450 "
60	6	"			4,120 "

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 _____



Fluid Sample Report

Date 9-18-90 Ticket No. 16357
 Company W.L. Hartman Trust
 Well Name & No. Dev "C" #1 DST No. 1
 County Haskell State KS
 Sampler No. 200 Test Interval 4764-4805

Pressure in Sampler 185 PSIG BHT 122 OF

Total Volume of Sampler 3100 cc.
 Total Volume of Sample: 2150 cc.
 Oil: 1600 cc.
 Water: 400 cc.
 Mud: 150 cc.
 Gas: .7 cu. ft.
 Other: _____

Resistivity

Water: .18 @ 79°F of Chloride Content 86,000 ppm.

Mud Pit Sample 1.7 @ 64°F of Chloride Content 3,500 ppm.

Gas/Oil Ratio _____ Gravity _____ °API @ _____ OF

Where was sample drained On location

Remarks: _____

WESTERN TESTING CO., INC.

Pressure Data

Date 9-18-90 Test Ticket No. 16257
 Recorder No. 3849 Capacity 4200 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature 122 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2267</u> P.S.I.	<u>5:15 A</u> M	
B First Initial Flow Pressure	<u>115</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>112</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>580</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>148</u> P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>197</u> P.S.I.		
G Final Closed-in Pressure	<u>520</u> P.S.I.		
H Final Hydrostatic Mud	<u>2303</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>115</u>	0	<u>112</u>	0	<u>148</u>	0	<u>197</u>
P 2 5	<u>115</u>	3	<u>196</u>	5	<u>148</u>	3	<u>230</u>
P 3 10	<u>102</u>	6	<u>268</u>	10	<u>155</u>	6	<u>222</u>
P 4 15	<u>99</u>	9	<u>322</u>	15	<u>166</u>	9	<u>301</u>
P 5 20	<u>100</u>	12	<u>364</u>	20	<u>172</u>	12	<u>319</u>
P 6 25	<u>108</u>	15	<u>398</u>	25	<u>176</u>	15	<u>336</u>
P 7 30	<u>112</u>	18	<u>418</u>	30	<u>179</u>	18	<u>353</u>
P 8 35		21	<u>444</u>	35	<u>182</u>	21	<u>364</u>
P 9 40		24	<u>463</u>	40	<u>187</u>	24	<u>376</u>
P10 45		27	<u>484</u>	45	<u>191</u>	27	<u>386</u>
P11 50		30	<u>502</u>	50	<u>193</u>	30	<u>398</u>
P12 55		33	<u>520</u>	55	<u>195</u>	33	<u>410</u>
P13 60		36	<u>537</u>	60	<u>197</u>	36	<u>440</u>
P14 65		39	<u>550</u>	65		39	<u>459</u>
P15 70		42	<u>565</u>	70		42	<u>438</u>
P16 75		45	<u>580</u>	75		45	<u>448</u>
P17 80		48		80		48	<u>456</u>
P18 85		51		85		51	<u>466</u>
P19 90		54		90		54	<u>474</u>
P20 95		57		95		57	<u>482</u>
100		60		100		60	<u>489</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 16257

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

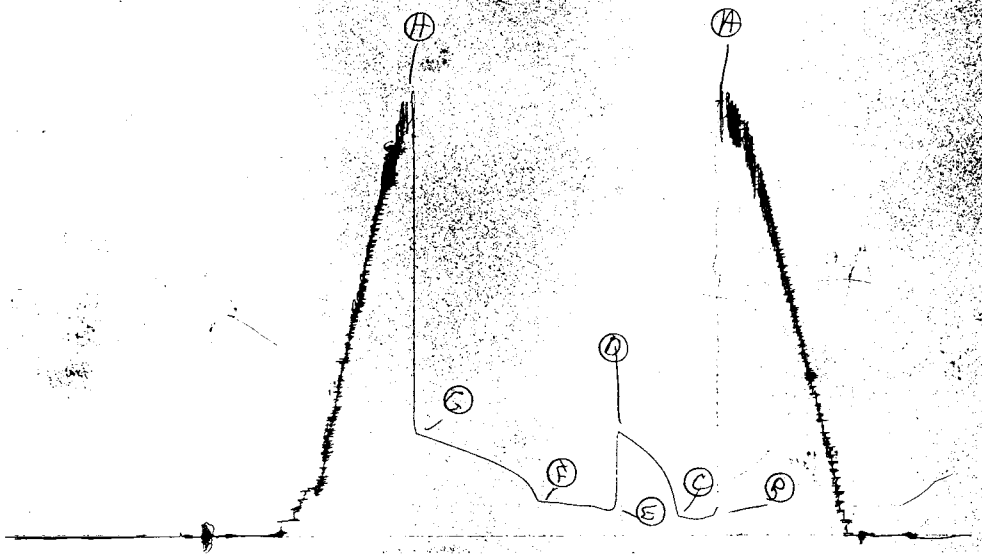
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud _____ P.S.I.		Open Tool _____ M _____		
B First Initial Flow Pressure _____ P.S.I.		First Flow Pressure _____ Mins. _____ Mins.		
C First Final Flow Pressure _____ P.S.I.		Initial Closed-in Pressure _____ Mins. _____ Mins.		
D Initial Closed-in Pressure _____ P.S.I.		Second Flow Pressure _____ Mins. _____ Mins.		
E Second Initial Flow Pressure _____ P.S.I.		Final Closed-in Pressure _____ Mins. _____ Mins.		
F Second Final Flow Pressure _____ P.S.I.				
G Final Closed-in Pressure _____ P.S.I.				
H Final Hydrostatic Mud _____ P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of _____ mins. and a		of _____ mins. and a		of _____ mins. and a		of _____ mins. and a	
final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>105</u>		<u>63</u>		<u>105</u>		<u>63</u>	<u>500</u>
P 2 <u>110</u>		<u>66</u>		<u>110</u>		<u>66</u>	<u>509</u>
P 3 <u>115</u>		<u>69</u>		<u>115</u>		<u>69</u>	<u>516</u>
P 4 <u>120</u>		<u>72</u>		<u>120</u>		<u>72</u>	<u>525</u>
P 5 <u>125</u>		<u>75</u>		<u>125</u>		<u>75</u>	<u>532</u>
P 6 <u>130</u>		<u>78</u>		<u>130</u>		<u>78</u>	<u>541</u>
P 7 <u>135</u>		<u>81</u>		<u>135</u>		<u>81</u>	<u>548</u>
P 8 <u>140</u>		<u>84</u>		<u>140</u>		<u>84</u>	<u>555</u>
P 9 <u>145</u>		<u>87</u>		<u>145</u>		<u>87</u>	<u>562</u>
P10 <u>150</u>		<u>90</u>		<u>150</u>		<u>90</u>	<u>570</u>
P11 <u>155</u>		<u>93</u>		<u>155</u>		<u>93</u>	
P12 <u>160</u>		<u>96</u>		<u>160</u>		<u>96</u>	
P13 <u>165</u>		<u>99</u>		<u>165</u>		<u>99</u>	
P14 <u>170</u>		<u>102</u>		<u>170</u>		<u>102</u>	
P15 <u>175</u>		<u>105</u>		<u>175</u>		<u>105</u>	
P16 <u>180</u>		<u>108</u>		<u>180</u>		<u>108</u>	
P17 <u>185</u>		<u>111</u>		<u>185</u>		<u>111</u>	
P18 <u>190</u>		<u>114</u>		<u>190</u>		<u>114</u>	
P19 <u>195</u>		<u>117</u>		<u>195</u>		<u>117</u>	
P20 <u>200</u>		<u>120</u>		<u>200</u>		<u>120</u>	

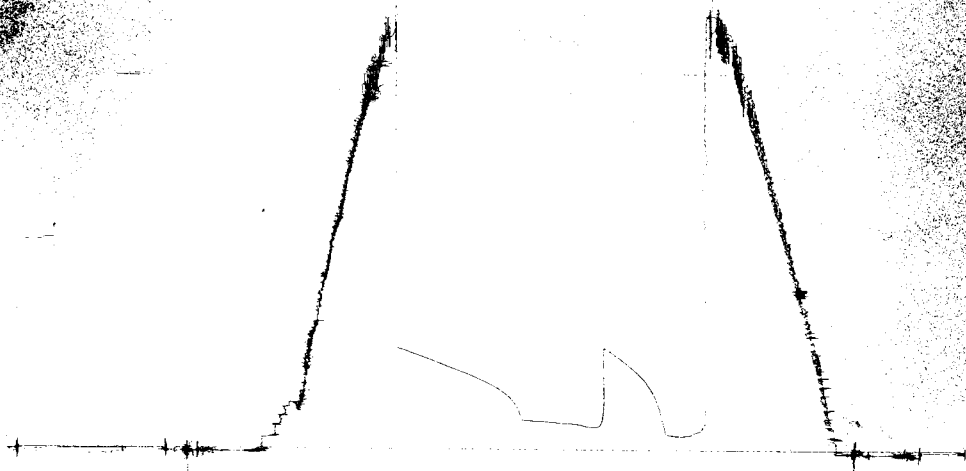
RT 16357 #3849 DS1 #1

I

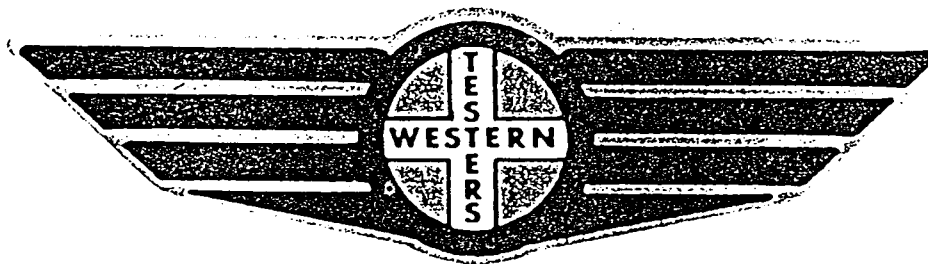


KT 16357.2604 DST #1

D



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY W L HARTMAN TRUST

LEASE & WELL NO.

DODY C #1

SEC. 36

TWP. 28S

RGE. 31W

TEST NO. 1

DATE 9/18/90

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	9-18-90	TICKET	:	16357	
CUSTOMER	:	W.L. HARTMAN TRUST	LEASE	:	DODY C	
WELL	:	#1	TEST:	:	1	
ELEVATION	:	2858 K.B.	GEOLOGIST	:	OSTERBUHR	
SECTION	:	36	FORMATION	:	MARMATON	
RANGE	:	31W	TOWNSHIP	:	28S	
GAUGE SN#	:	3849	STATE	:	KANSAS	
		COUNTY :	HASKELL		CLOCK :	12
		RANGE :	4200			

INTERVAL FROM : 4764 TO : 4805 TOTAL DEPTH : 4805

DEPTH OF SELECTIVE ZONE :

PACKER DEPTH : 4759 SIZE : 6.63

PACKER DEPTH : 4764 SIZE : 6.63

PACKER DEPTH : SIZE :

PACKER DEPTH : SIZE :

DRILLING CON. : CHEYENNE RIG #4

MUD TYPE : CHEMICAL VISCOSITY : 51

WEIGHT : 9.0 WATER LOSS (CC) : 6.4

CHLORIDES (PPM) : 3500

JARS-MAKE : WTC SERIAL NUMBER : 411

DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 304 FT I.D. inch : 2.25

WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00

DRILL PIPE LENGTH : 4428 FT I.D. inch : 3.80

TEST TOOL LENGTH : 32 FT TOOL SIZE : 5.50

ANCHOR LENGTH : 41 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 : I.F.P. WEAK TO STRONG BLOW IN 1 MIN. GAS TO

BLOW COMMENT #2 : SURFACE IN 14 MIN. SEE GAS FLOW REPORT.

BLOW COMMENT #3 : F.F.P. FAIR TO STRONG BLOW IN 2 MIN. SEE

BLOW COMMENT #4 : GAS FLOW REPORT.

RECOVERED	:	80	FT	OF: MUD-CUT GAS & OIL
RECOVERED	:	0	FT	OF: 7%GAS 58%OIL 35%MUD
RECOVERED	:	300	FT	OF: SLI. MUD-CUT GAS & OIL
RECOVERED	:	0	FT	OF: 30%GAS 50%OIL 20%MUD
RECOVERED	:	180	FT	OF: SLI. GAS-CUT OIL
RECOVERED	:	0	FT	OF: 3%GAS 97%OIL 38 GRAVITY

Total Barrels Fluid	=	5.09
Total Fluid Prod Rate	=	81.37 BFPD
Indicated Oil Rate	=	53.91 BOPD
Indicated Wtr Rate	=	1.28 BWPD
Corrected Oil Rate	=	32.96 BOPD
Corrected Wtr Rate	=	0.78 BWPD

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

SET PACKER(S) : 5:15 A.M.

TIME STARTED OFF BOTTOM : 9:00 A.M.

WELL TEMPERATURE : 122

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 45

FINAL FLOW PERIOD MIN: 60

FINAL CLOSED IN PERIOD MIN: 90

FINAL HYDROSTATIC PRESSURE

(A) 2367

(B) 115 PSI TO (C) : 113

(D) 580

(E) 148 PSI TO (F) : 197

(G) 570

(H) 2303

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : W.L. HARTMAN TRUST
RIG : HASKELL-KANSAS
FIELD : DODY C
WELL : #1
DATE : 9-18-90
GAUGE NO : 3849

OPERATIONAL COMMENTS

COMPANY : W.L. HARTMAN TRUST
WELL : #1
GAUGE # : 3849
DATE : 18/ 9/90

FIELD : DODY C
JOB # : 16357
DEPTH : 4805
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	5:15: 0	0.000	115.000	122.00	0.000
3	5:19:59	0.083	115.000	122.00	0.000
4	5:25: 0	0.167	102.000	122.00	-13.000
5	5:30: 0	0.250	99.000	122.00	-3.000
6	5:34:59	0.333	100.000	122.00	1.000
7	5:40: 0	0.417	108.000	122.00	8.000
8	5:45: 0	0.500	113.000	122.00	5.000
INITIAL SHUT-IN PERIOD					
9	5:48: 0	0.550	196.000	122.00	83.000
10	5:51: 0	0.600	268.000	122.00	72.000
11	5:54: 0	0.650	322.000	122.00	54.000
12	5:57: 0	0.700	364.000	122.00	42.000
13	6: 0: 0	0.750	398.000	122.00	34.000
14	6: 3: 0	0.800	418.000	122.00	20.000
15	6: 6: 0	0.850	444.000	122.00	26.000
16	6: 9: 0	0.900	463.000	122.00	19.000
17	6:12: 0	0.950	484.000	122.00	21.000
18	6:15: 0	1.000	502.000	122.00	18.000
19	6:18: 0	1.050	520.000	122.00	18.000
20	6:21: 0	1.100	537.000	122.00	17.000
21	6:24: 0	1.150	550.000	122.00	13.000
22	6:27: 0	1.200	565.000	122.00	15.000
23	6:30: 0	1.250	580.000	122.00	15.000
FINAL FLOW PERIOD					
24	6:31: 0	1.267	148.000	122.00	-432.000
25	6:34:59	1.333	148.000	122.00	0.000
26	6:40: 0	1.417	155.000	122.00	7.000
27	6:45: 0	1.500	166.000	122.00	11.000
28	6:49:59	1.583	172.000	122.00	6.000
29	6:55: 0	1.667	176.000	122.00	4.000
30	7: 0: 0	1.750	179.000	122.00	3.000
31	7: 4:59	1.833	182.000	122.00	3.000
32	7:10: 0	1.917	187.000	122.00	5.000
33	7:15: 0	2.000	191.000	122.00	4.000
34	7:19:59	2.083	193.000	122.00	2.000
35	7:25: 0	2.167	195.000	122.00	2.000
36	7:30: 0	2.250	197.000	122.00	2.000
FINAL SHUT-IN PERIOD					
37	7:33: 0	2.300	230.000	122.00	33.000
38	7:36: 0	2.350	273.000	122.00	43.000
39	7:39: 0	2.400	301.000	122.00	28.000
40	7:42: 0	2.450	319.000	122.00	18.000
41	7:45: 0	2.500	336.000	122.00	17.000
42	7:48: 0	2.550	353.000	122.00	17.000
43	7:51: 0	2.600	364.000	122.00	11.000
44	7:54: 0	2.650	376.000	122.00	12.000
45	7:57: 0	2.700	386.000	122.00	10.000
46	8: 0: 0	2.750	398.000	122.00	12.000
47	8: 3: 0	2.800	410.000	122.00	12.000
48	8: 6: 0	2.850	420.000	122.00	10.000

COMPANY : W.L. HARTMAN TRUST
WELL : #1
GAUGE # : 3849
DATE : 18/ 9/90

FIELD : DODY C
JOB # : 16357
DEPTH : 4805
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: 9: 0	2.900	429.000	122.00	9.000
50	8:12: 0	2.950	438.000	122.00	9.000
51	8:15: 0	3.000	448.000	122.00	10.000
52	8:18: 0	3.050	456.000	122.00	8.000
53	8:21: 0	3.100	466.000	122.00	10.000
54	8:24: 0	3.150	474.000	122.00	8.000
55	8:27: 0	3.200	482.000	122.00	8.000
56	8:30: 0	3.250	489.000	122.00	7.000
57	8:33: 0	3.300	500.000	122.00	11.000
58	8:36: 0	3.350	509.000	122.00	9.000
59	8:39: 0	3.400	516.000	122.00	7.000
60	8:42: 0	3.450	525.000	122.00	9.000
61	8:45: 0	3.500	532.000	122.00	7.000
62	8:48: 0	3.550	541.000	122.00	9.000
63	8:51: 0	3.600	548.000	122.00	7.000
64	8:54: 0	3.650	555.000	122.00	7.000
65	8:57: 0	3.700	562.000	122.00	7.000
66	9: 0: 0	3.750	570.000	122.00	8.000

WESTERN TESTING CO. INC.

GAS FLOW REPORT

Date : 9-18-90 Ticket # : 16357
 Customer : W.L. HARTMAN TRUST Lease : DODY C
 Well : #1 Test : 1 Geologist : OSTERBUHR
 Elevation (KB) : 2858 K.B. Formation : MARMATON
 Section : 36 Township : 28S
 Range : 31W County : HASKELL State : KANSAS
 Gauge SN # : 3849 Range : 4200 Clock : 12

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

PRE FLOW =====

14 MIN.	MERLA			GAS TO SURFACE
20 MIN.	MERLA	1/2"	23"WTR	29400 C.F.P.D.
30 MIN.	MERLA	1/2"	5"WTR	14100 C.F.P.D.

SECOND FLOW =====

10 MIN.	MERLA	1/2"	6"WTR	15400 C.F.P.D.
20 MIN.	MERLA	1/4"	11"WTR	5600 C.F.P.D.
30 MIN.	MERLA	1/4"	14"WTR	6330 C.F.P.D.
40 MIN.	MERLA	1/4"	12"WTR	5860 C.F.P.D.
50 MIN.	MERLA	1/4"	7"WTR	4450 C.F.P.D.
60 MIN.	MERLA	1/4"	6"WTR	4120 C.F.P.D.

Gas Bottle SN # :
 Date Bottle Filled : 9-18-90
 Date to be Invoiced : 9-18-90

FLUID SAMPLE REPORT

Date : 9-18-90 Ticket No. : 16357
 Company : W.L. HARTMAN TRUST
 Well Name & No. : DODY C #1
 DST No. 1
 County : HASKELL State : KANSAS
 Sampler No. : 200 Test Interval : 4764-4805

=====

Pressure in Sampler	185 PSIG	BHT	122	Deg F
Total Volume of Sampler	: 3100	cc		
Total Volume of Sample	: 2150	cc		
Oil:	1600	cc		
Water:	400	cc		
Mud:	150	cc		
Gas:	.7	cu ft		
Other:		cc		

=====

RESITIVITY

Drilling Mud	.18	@	79 F	Chloride Content	86000 ppm
Mud Pit Sample	1.7	@	64 F	Chloride Content	3500 ppm
Gas/Oil Ratio		Gravity		API @	Deg F

Where was sample drained ON LOCATION

Remarks:



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 16358

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

WICHITA, KANSAS 67201

Elevation 2858 A.B. Formation St. Louis Eff. Pay _____ Ft.

COMPANY NAME W.L. Hartman Trust
ADDRESS P.O. Box 54 Wichita, KS 67202
LEASE AND WELL NO. Dody "C" #1 COUNTY Wichita STATE KS Sec. 36 Twp. 28S Rge. 21W
Mail Invoice To W.L. Hartman Trust Co. Name Same Address Dody C #1 No. Copies Requested Reg.
Mail Charts To W.L. Hartman Trust Co. Name Same Address Dody C #1 No. Copies Requested Reg.

Formation Test No. 2 Interval Tested From 5405 ft. to 5430 ft. Total Depth 5430 ft.
Packer Depth 5400 ft. Size 6 3/8 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 5405 ft. Size 6 3/8 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 5417 ft. Recorder Number 3849 Cap. 4200
Bottom Recorder Depth (Outside) 5420 ft. Recorder Number 2604 Cap. 4150
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____
Drilling Contractor Cheyenne Rig 4 Drill Collar Length 596 I. D. 2 1/4 in.
Mud Type Chemical Viscosity 44 Weight Pipe Length _____ I. D. _____ in.
Weight 8.9 Water Loss 12.0 cc. Drill Pipe Length 4777 I. D. 3.8 in.
Chlorides 3300 P.P.M. Test Tool Length 32 ft. Tool Size 5 1/2 in.
Jars: Make W.T.C. Serial Number 411 Anchor Length 25 ft. Size 5 1/2 in.
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 X.H. in.

Blow: Very weak throughout I.F.
Weak, built to 9" in bucket 90 min. F.F.

Recovered 400 ft. of Gas in Pipe
Recovered 20 ft. of Gas & oil cut mud 4 1/2 Gas 880' 888' mud
Recovered 60 ft. of Heavy Gas & oil cut mud 6 1/2 Gas 278' oil 678' mud
Recovered _____ ft. of _____
Recovered _____ ft. of Total Fluid Rec 80'
Chlorides _____ P.P.M. Sample Jars used _____ Remarks: Oil 27 Gravity
17.8 Oil
5.8 WTR

Time On Location 12:30 A.M. Time Pick Up Tool 2:00 A.M. Time Off Location _____ A.M.
Time Set Packer(s) 3:55 A.M. Time Started Off Bottom 8:40 A.M. Maximum Temperature 132°F
Initial Hydrostatic Pressure _____ (A) 2688 P.S.I.
Initial Flow Period _____ Minutes 45 (B) 10 P.S.I. to (C) 46 P.S.I.
Initial Closed In Period _____ Minutes 60 (D) 1236 P.S.I.
Final Flow Period _____ Minutes 90 (E) 53 P.S.I. to (F) 63 P.S.I.
Final Closed In Period _____ Minutes 90 (G) 1138 P.S.I.
Final Hydrostatic Pressure _____ (H) 2614 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature]
Signature of Customer or his authorized representative

Western Representative [Signature] 1920
Thank You

FIELD INVOICE

Open Hole Test \$ ✓ 650
Misrun \$ _____
Straddle Test \$ _____
Jars \$ ✓ 225
Selective Zone \$ _____
Safety Joint \$ ✓ 25
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Fluid Sampler \$ ✓ 200
Extra Charts \$ _____
Insurance \$ _____
Telecopier \$ _____
TOTAL \$ _____

WESTERN TESTING CO., INC.

Pressure Data

Date 9-20-90 Test Ticket No. 1658
 Recorder No. 3849 Capacity 4200 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature 82 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2655</u>	P.S.I.	<u>2:55 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>17</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
C First Final Flow Pressure	<u>70</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1236</u>	P.S.I.	<u>70</u>	<u>85</u> Mins.
E Second Initial Flow Pressure	<u>60</u>	P.S.I.	<u>70</u>	<u>96</u> Mins.
F Second Final Flow Pressure	<u>72</u>	P.S.I.		
G Final Closed-in Pressure	<u>1146</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2597</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>17</u>	0	<u>70</u>	0	<u>60</u>	0	<u>72</u>
P 2 5	<u>19</u>	3	<u>78</u>	5	<u>60</u>	3	<u>83</u>
P 3 10	<u>20</u>	6	<u>101</u>	10	<u>60</u>	6	<u>91</u>
P 4 15	<u>21</u> OK	9	<u>132</u>	15	<u>60</u>	9	<u>108</u>
P 5 20	<u>21</u> OK	12	<u>172</u>	20	<u>61</u>	12	<u>125</u>
P 6 25	<u>28</u>	15	<u>225</u>	25	<u>63</u>	15	<u>129</u>
P 7 30	<u>40</u>	18	<u>300</u>	30	<u>65</u>	18	<u>159</u>
P 8 35	<u>52</u>	21	<u>381</u>	35	<u>65</u>	21	<u>177</u>
P 9 40	<u>68</u>	24	<u>468</u>	40	<u>65</u>	24	<u>197</u>
P10 45	<u>70</u>	27	<u>559</u>	45	<u>65</u>	27	<u>223</u>
P11 50		30	<u>645</u>	50	<u>65</u>	30	<u>254</u>
P12 55		33	<u>737</u>	55	<u>65</u>	33	<u>288</u>
P13 60		36	<u>843</u>	60	<u>65</u>	36	<u>319</u>
P14 65		39	<u>888</u>	65	<u>65</u>	39	<u>361</u>
P15 70		42	<u>956</u>	70	<u>67</u>	42	<u>400</u>
P16 75		45	<u>1019</u>	75	<u>72</u>	45	<u>449</u>
P17 80		48	<u>1075</u>	80	<u>72</u>	48	<u>495</u>
P18 85		51	<u>1131</u>	85	<u>72</u>	51	<u>540</u>
P19 90		54	<u>1172</u>	90		54	<u>591</u>
P20 95		57	<u>1214</u>	95		57	<u>648</u>
100		60	<u>1236</u>	100		60	<u>697</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 16258

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud _____ P.S.I.		Open Tool _____ M _____		
B First Initial Flow Pressure _____ P.S.I.		First Flow Pressure _____ Mins. _____ Mins.		
C First Final Flow Pressure _____ P.S.I.		Initial Closed-in Pressure _____ Mins. _____ Mins.		
D Initial Closed-in Pressure _____ P.S.I.		Second Flow Pressure _____ Mins. _____ Mins.		
E Second Initial Flow Pressure _____ P.S.I.		Final Closed-in Pressure _____ Mins. _____ Mins.		
F Second Final Flow Pressure _____ P.S.I.				
G Final Closed-in Pressure _____ P.S.I.				
H Final Hydrostatic Mud _____ P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of _____ mins. and a		of _____ mins. and a		of _____ mins. and a		of _____ mins. and a	
final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 105		63		105		63	745
P 2 110		66		110		66	800
P 3 115		69		115		69	843
P 4 120		72		120		72	870
P 5 125		75		125		75	932
P 6 130		78		130		78	972
P 7 135		81		135		81	1010
P 8 140		84		140		84	1044
P 9 145		87		145		87	1076
P10 150		90		150		90	1109
P11 155		93		155		93	1131
P12 160		96		160		96	1146
P13 165		99		165		99	
P14 170		102		170		102	
P15 175		105		175		105	
P16 180		108		180		108	
P17 185		111		185		111	
P18 190		114		190		114	
P19 195		117		195		117	
P20 200		120		200		120	



Fluid Sample Report

Date 9-20-90 Ticket No. 16358

Company W.L. Hartman Trust

Well Name & No. Dady "C" #1 DST No. 2

County Haskell State Kansas

Sampler No. 200 Test Interval 5405 - 5430

Pressure in Sampler 70 PSIG BHT 132° OF

Total Volume of Sampler 3100 cc.

Total Volume of Sample: 2500 cc.

Oil: 1200 Gravity 27 cc.

Water: 700 cc.

Mud: 600 cc.

Gas: 1 cu. ft.

Other: _____

Resistivity

Water: 9 @ 70°F of Chloride Content 14,000 ppm.

Mud Pit Sample 1.7 @ 72°F of Chloride Content 3,300 ppm.

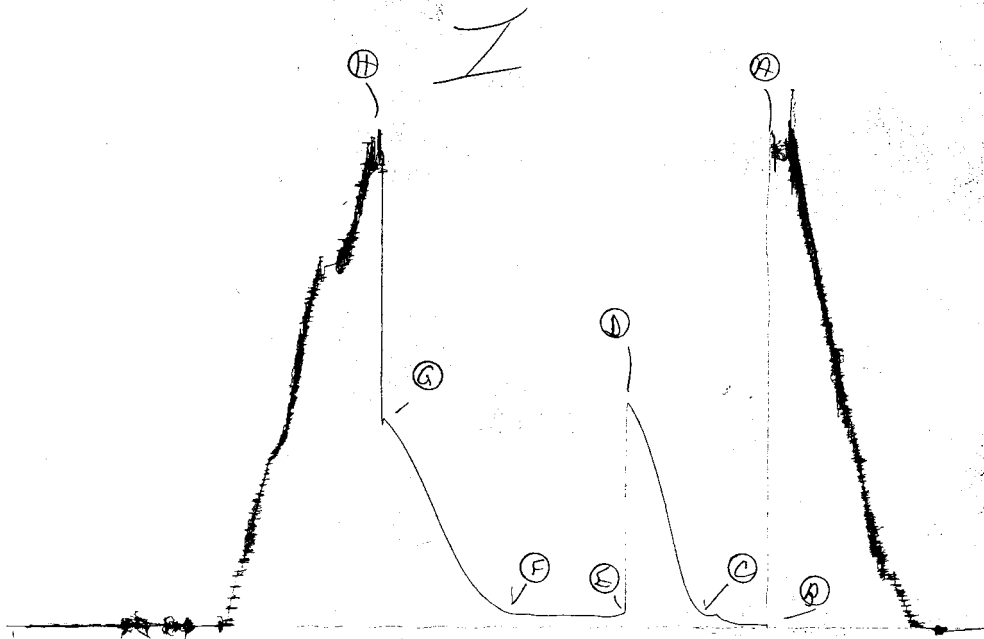
Gas/Oil Ratio _____ Gravity _____ °API @ _____ OF

Where was sample drained On Location

Remarks: _____

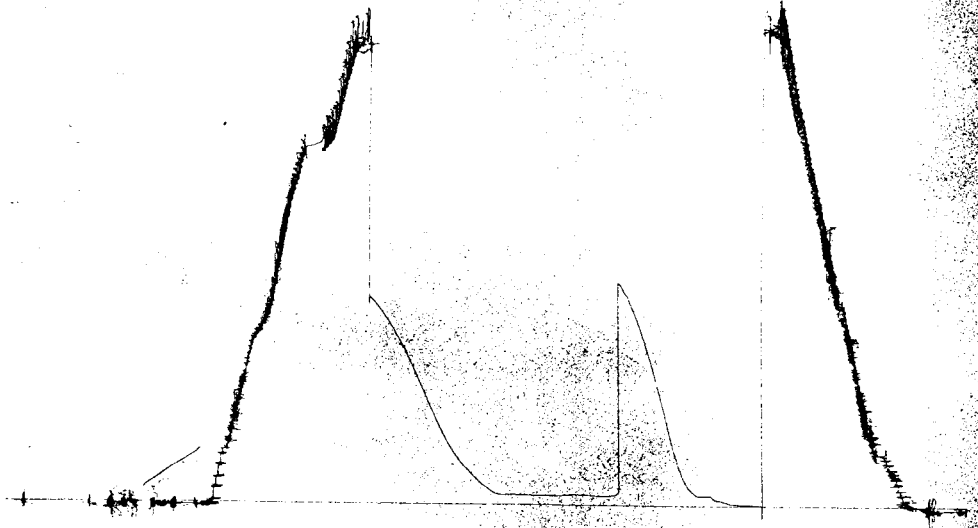
KT 16358

#3849 DS1 #2

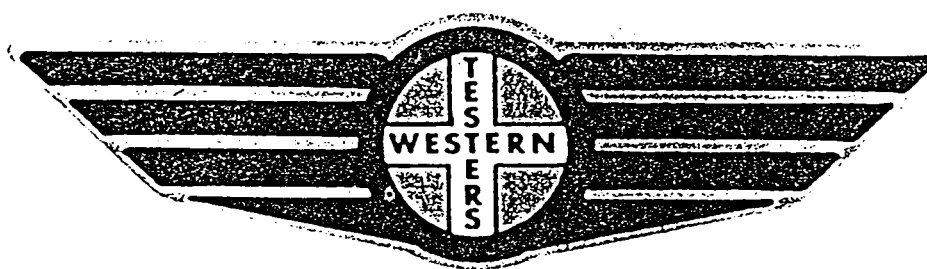


JKT 16358-2604 DST #2

0



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY W L HARTMAN TRUST

LEASE & WELL NO. DODY C #1

SEC. 36 TWP. 28S RGE. 31W TEST NO. 2 DATE 9/20/90

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	9-20-90	TICKET	:	16358
CUSTOMER	:	W.L. HARTMAN TRUST	LEASE	:	DODY C
WELL	:	#1	TEST:	:	2
ELEVATION	:	2858 K.B.	GEOLOGIST	:	OSTERBUHR
SECTION	:	36	FORMATION	:	ST. LOUIS
RANGE	:	31W	TOWNSHIP	:	28S
Gauge SN#	:	3849	STATE	:	KANSAS
	:		CLOCK	:	12
	:	COUNTY :		:	HASKELL
	:	RANGE :		:	4200

INTERVAL FROM	:	5405	TO	:	5430	TOTAL DEPTH	:	5430
DEPTH OF SELECTIVE ZONE	:			:			:	
PACKER DEPTH	:	5400	SIZE	:	6.63		:	
PACKER DEPTH	:	5405	SIZE	:	6.63		:	
PACKER DEPTH	:		SIZE	:			:	
PACKER DEPTH	:		SIZE	:			:	

DRILLING CON.	:	CHEYENNE RIG #4		:	
MUD TYPE	:	CHEMICAL	VISCOSITY	:	44
WEIGHT	:	8.9	WATER LOSS (CC)	:	12.0
CHLORIDES (PPM)	:	3300		:	
JARS-MAKE	:	WTC	SERIAL NUMBER	:	411
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	596	FT	I.D. inch	:	2.25
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	4777	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	32	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	25	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 VERY WEAK THROUGHOUT.
BLOW COMMENT #2	:	FINAL FLOW PERIOD WEAK BLOW-BUILT TO 9 INCHES
BLOW COMMENT #3	:	IN BUCKET.-90 MINUTES.
BLOW COMMENT #4	:	

RECOVERED : 20 FT OF: GAS & OIL-CUT MUD
RECOVERED : 0 FT OF: 4%GAS 8%OIL 88%MUD
RECOVERED : 60 FT OF: HEAVY GAS & OIL-CUT MUD
RECOVERED : 0 FT OF: 6%GAS 27%OIL 67%MUD
RECOVERED : 0 FT OF: OIL 27 GRAVITY

Total Barrels Fluid = 0.39
Total Fluid Prod Rate = 4.36 BFPD
Indicated Oil Rate = 0.97 BOPD
Indicated Wtr Rate = 0.32 BWPD
Corrected Oil Rate = 7.75 BOPD
Corrected Wtr Rate = 2.53 BWPD

REMARK 1 :
REMARK 2 : 400 FT. GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 3:55 P.M. TIME STARTED OFF BOTTOM : 8:50 P.M.
WELL TEMPERATURE : 132
INITIAL HYDROSTATIC PRESSURE (A) 2655
INITIAL FLOW PERIOD MIN: 45 (B) 17 PSI TO (C) : 70
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1236
FINAL FLOW PERIOD MIN: 85 (E) 60 PSI TO (F) : 72
FINAL CLOSED IN PERIOD MIN: 96 (G) 1146
FINAL HYDROSTATIC PRESSURE (H) 2597

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : W.L. HARTMAN TRUST
RIG : HASKELL-KANSAS
FIELD : DODY C
WELL : #1
DATE : 9-20-90
GAUGE NO : 3849

OPERATIONAL COMMENTS

400 FT. GAS ABOVE FLUID.

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : W.L. HARTMAN TRUST
RIG : HASKELL-KANSAS
FIELD : DODY C
WELL : #1
DATE : 9-20-90
GAUGE NO : 3849

OPERATIONAL COMMENTS

400 FT. GAS ABOVE FLUID.

COMPANY : W.L. HARTMAN TRUST
WELL : #1
GAUGE # : 3849
DATE : 20/ 9/90

FIELD : DODY C
JOB # : 16358
DEPTH : 5430
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	3:55: 0	0.000	17.000	132.00	0.000
3	3:59:59	0.083	19.000	132.00	2.000
4	4: 5: 0	0.167	20.000	132.00	1.000
5	4:10: 0	0.250	21.000	132.00	1.000
6	4:14:59	0.333	21.000	132.00	0.000
7	4:20: 0	0.417	28.000	132.00	7.000
8	4:25: 0	0.500	40.000	132.00	12.000
9	4:29:59	0.583	53.000	132.00	13.000
10	4:35: 0	0.667	68.000	132.00	15.000
11	4:40: 0	0.750	70.000	132.00	2.000
INITIAL SHUT-IN PERIOD					
12	4:43: 0	0.800	78.000	132.00	8.000
13	4:46: 0	0.850	101.000	132.00	23.000
14	4:49: 0	0.900	133.000	132.00	32.000
15	4:52: 0	0.950	173.000	132.00	40.000
16	4:55: 0	1.000	225.000	132.00	52.000
17	4:58: 0	1.050	300.000	132.00	75.000
18	5: 1: 0	1.100	381.000	132.00	81.000
19	5: 4: 0	1.150	468.000	132.00	87.000
20	5: 7: 0	1.200	559.000	132.00	91.000
21	5:10: 0	1.250	645.000	132.00	86.000
22	5:13: 0	1.300	737.000	132.00	92.000
23	5:16: 0	1.350	813.000	132.00	76.000
24	5:19: 0	1.400	888.000	132.00	75.000
25	5:22: 0	1.450	956.000	132.00	68.000
26	5:25: 0	1.500	1019.000	132.00	63.000
27	5:28: 0	1.550	1075.000	132.00	56.000
28	5:31: 0	1.600	1131.000	132.00	56.000
29	5:34: 0	1.650	1173.000	132.00	42.000
30	5:37: 0	1.700	1214.000	132.00	41.000
31	5:40: 0	1.750	1236.000	132.00	22.000
FINAL FLOW PERIOD					
32	5:41: 0	1.767	60.000	132.00	-1176.000
33	5:44:59	1.833	60.000	132.00	0.000
34	5:50: 0	1.917	60.000	132.00	0.000
35	5:55: 0	2.000	60.000	132.00	0.000
36	5:59:59	2.083	61.000	132.00	1.000
37	6: 5: 0	2.167	63.000	132.00	2.000
38	6:10: 0	2.250	65.000	132.00	2.000
39	6:14:59	2.333	65.000	132.00	0.000
40	6:20: 0	2.417	65.000	132.00	0.000
41	6:25: 0	2.500	65.000	132.00	0.000
42	6:29:59	2.583	65.000	132.00	0.000
43	6:35: 0	2.667	65.000	132.00	0.000
44	6:40: 0	2.750	65.000	132.00	0.000
45	6:44:59	2.833	65.000	132.00	0.000
46	6:50: 0	2.917	67.000	132.00	2.000
47	6:55: 0	3.000	72.000	132.00	5.000
48	6:59:59	3.083	72.000	132.00	0.000
49	7: 5: 0	3.167	72.000	132.00	0.000

COMPANY : W.L. HARTMAN TRUST
WELL : #1
GAUGE # : 3849
DATE : 20/ 9/90

FIELD : DODY C
JOB # : 16358
DEPTH : 5430
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
-------------	-----------------------	----------------------------	------------------	---------------	----------------------

FINAL SHUT-IN PERIOD

50	7: 8: 0	3.217	83.000	132.00	11.000
51	7:11: 0	3.267	91.000	132.00	8.000
52	7:14: 0	3.317	108.000	132.00	17.000
53	7:17: 0	3.367	125.000	132.00	17.000
54	7:20: 0	3.417	139.000	132.00	14.000
55	7:23: 0	3.467	159.000	132.00	20.000
56	7:26: 0	3.517	177.000	132.00	18.000
57	7:29: 0	3.567	197.000	132.00	20.000
58	7:32: 0	3.617	223.000	132.00	26.000
59	7:35: 0	3.667	254.000	132.00	31.000
60	7:38: 0	3.717	288.000	132.00	34.000
61	7:41: 0	3.767	319.000	132.00	31.000
62	7:44: 0	3.817	361.000	132.00	42.000
63	7:47: 0	3.867	400.000	132.00	39.000
64	7:50: 0	3.917	449.000	132.00	49.000
65	7:53: 0	3.967	495.000	132.00	46.000
66	7:56: 0	4.017	540.000	132.00	45.000
67	7:59: 0	4.067	591.000	132.00	51.000
68	8: 2: 0	4.117	648.000	132.00	57.000
69	8: 5: 0	4.167	697.000	132.00	49.000
70	8: 8: 0	4.217	745.000	132.00	48.000
71	8:11: 0	4.267	800.000	132.00	55.000
72	8:14: 0	4.317	843.000	132.00	43.000
73	8:17: 0	4.367	890.000	132.00	47.000
74	8:20: 0	4.417	932.000	132.00	42.000
75	8:23: 0	4.467	972.000	132.00	40.000
76	8:26: 0	4.517	1010.000	132.00	38.000
77	8:29: 0	4.567	1044.000	132.00	34.000
78	8:32: 0	4.617	1076.000	132.00	32.000
79	8:35: 0	4.667	1109.000	132.00	33.000
80	8:38: 0	4.717	1131.000	132.00	22.000
81	8:41: 0	4.767	1146.000	132.00	15.000

WESTERN TESTING CO. INC.

FLUID SAMPLE REPORT

Date : 9-20-90 Ticket No. : 16358
 Company : W.L. HARTMAN TRUST
 Well Name & No. : DOD C #1
 DST No. 2
 County : HASKELL State : KANSAS
 Sampler No. : 200 Test Interval : 5405-5430

=====

Pressure in Sampler	70	PSIG	BHT	132	Deg F
Total Volume of Sampler	: 3100		cc		
Total Volume of Sample	: 2500		cc		
	Oil: 1200		GRAVITY	27	
			cc		
	Water: 700		cc		
	Mud: 600		cc		
	Gas: .1	cu ft			
	Other:		cc		

=====

RESITIVITY

Drilling Mud	.9	@	70 F	Chloride Content	14000 ppm
Mud Pit Sample	1.7	@	72 F	Chloride Content	3300 ppm
Gas/Oil Ratio			Gravity	API @	Deg F
Where was sample drained ON LOCATION					

Remarks: