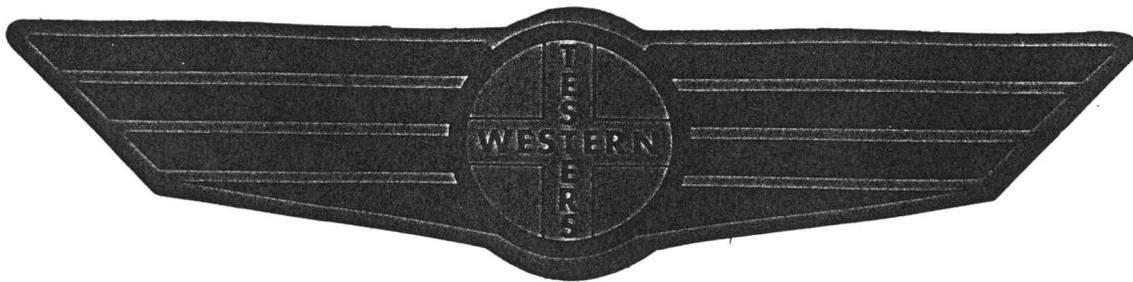


# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

COMPANY CHARLES TATUM OIL OPERATOR LEASE & WELL NO. NETTIE N. PATTON SEC. 21 TWP. 32SRGE. 10E TEST NO. 1 DATE 10-11-91  
TRUST #1

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 10-11-91 TICKET : 17458  
CUSTOMER : CHARLES TATUM OIL OPERATOR LEASE : NETTIE N. PATTON  
WELL : 1 TEST: 1 GEOLOGIST : ELSTER TRUST  
ELEVATION : 1030 GL FORMATION : MARMATON  
SECTION : 21 TOWNSHIP : 32S  
RANGE : 10E COUNTY : CHAUTAUQUA STATE : KANSAS  
GAUGE SN# : 1051 RANGE : 4250 CLOCK : 12

INTERVAL FROM : 1638 TO : 1699 TOTAL DEPTH : 1699  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 1633 SIZE : 6.63  
PACKER DEPTH : 1638 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : GAINES DRILLING  
MUD TYPE : CHEMICAL VISCOSITY : 40  
WEIGHT : 9.5 WATER LOSS (CC) : 18.8  
CHLORIDES (PPM) : 1200  
JARS-MAKE : SERIAL NUMBER :  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 338 FT I.D. inch : 2.25  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 1280 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 61 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 2 INCH BLOW THROUGHOUT BOTH FLOW PERIODS  
BLOW COMMENT #2 :  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 130 FT OF: MUD

Total Barrels Fluid = 0.64  
Total Fluid Prod Rate = 7.67 BFPD  
Indicated Wtr Rate = 0.77 BWPD

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

SET PACKER(S) :	2:05 A.M.	TIME STARTED OFF BOTTOM :	6:05 A.M.
WELL TEMPERATURE :	94		
INITIAL HYDROSTATIC PRESSURE		(A)	840
INITIAL FLOW PERIOD MIN:	60	(B)	92 PSI TO (C) : 92
INITIAL CLOSED IN PERIOD MIN:	63	(D)	589
FINAL FLOW PERIOD MIN:	60	(E)	120 PSI TO (F) : 120
FINAL CLOSED IN PERIOD MIN:	63	(G)	573
FINAL HYDROSTATIC PRESSURE		(H)	840

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report

COMPANY : CHARLES TATUM OIL OPERATOR  
RIG : CHAUTAUQUA-KANSAS  
FIELD : NETTIE N. PATTON TRUST  
WELL : 1  
DATE : 10-11-91  
GAUGE NO : 1051

OPERATIONAL COMMENTS

COMPANY : CHARLES TATUM OIL OPERATOR  
 WELL : 1  
 GAUGE # : 1051  
 DATE : 11/10/91

FIELD : NETTIE N. PATTON TRUST  
 JOB # : 17458  
 DEPTH : 1699  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	2: 5: 0	0.000	92.000	94.00	0.000
3	2: 9:59	0.083	92.000	94.00	0.000
4	2:15: 0	0.167	92.000	94.00	0.000
5	2:20: 0	0.250	92.000	94.00	0.000
6	2:24:59	0.333	92.000	94.00	0.000
7	2:30: 0	0.417	92.000	94.00	0.000
8	2:35: 0	0.500	92.000	94.00	0.000
9	2:39:59	0.583	92.000	94.00	0.000
10	2:45: 0	0.667	92.000	94.00	0.000
11	2:50: 0	0.750	92.000	94.00	0.000
12	2:54:59	0.833	92.000	94.00	0.000
13	3: 0: 0	0.917	92.000	94.00	0.000
14	3: 5: 0	1.000	92.000	94.00	0.000
INITIAL SHUT-IN PERIOD					
15	3: 8: 0	1.050	94.000	94.00	2.000
16	3:11: 0	1.100	198.000	94.00	104.000
17	3:14: 0	1.150	297.000	94.00	99.000
18	3:17: 0	1.200	368.000	94.00	71.000
19	3:20: 0	1.250	416.000	94.00	48.000
20	3:23: 0	1.300	454.000	94.00	38.000
21	3:26: 0	1.350	477.000	94.00	23.000
22	3:29: 0	1.400	501.000	94.00	24.000
23	3:32: 0	1.450	517.000	94.00	16.000
24	3:35: 0	1.500	530.000	94.00	13.000
25	3:38: 0	1.550	537.000	94.00	7.000
26	3:41: 0	1.600	548.000	94.00	11.000
27	3:44: 0	1.650	555.000	94.00	7.000
28	3:47: 0	1.700	561.000	94.00	6.000
29	3:50: 0	1.750	567.000	94.00	6.000
30	3:53: 0	1.800	572.000	94.00	5.000
31	3:56: 0	1.850	576.000	94.00	4.000
32	3:59: 0	1.900	578.000	94.00	2.000
33	4: 2: 0	1.950	583.000	94.00	5.000
34	4: 5: 0	2.000	585.000	94.00	2.000
35	4: 8: 0	2.050	589.000	94.00	4.000
FINAL FLOW PERIOD					
36	4: 9: 0	2.067	120.000	94.00	-469.000
37	4:12:59	2.133	120.000	94.00	0.000
38	4:18: 0	2.217	120.000	94.00	0.000
39	4:23: 0	2.300	120.000	94.00	0.000
40	4:27:59	2.383	120.000	94.00	0.000
41	4:33: 0	2.467	120.000	94.00	0.000
42	4:38: 0	2.550	120.000	94.00	0.000
43	4:42:59	2.633	120.000	94.00	0.000
44	4:48: 0	2.717	120.000	94.00	0.000
45	4:53: 0	2.800	120.000	94.00	0.000
46	4:57:59	2.883	120.000	94.00	0.000
47	5: 3: 0	2.967	120.000	94.00	0.000
48	5: 8: 0	3.050	120.000	94.00	0.000

COMPANY : CHARLES TATUM OIL OPERATOR  
 WELL : 1  
 GAUGE # : 1051  
 DATE : 11/10/91

FIELD : NETTIE N. PATTON TRUST  
 JOB # : 17458  
 DEPTH : 1699  
 TEST :

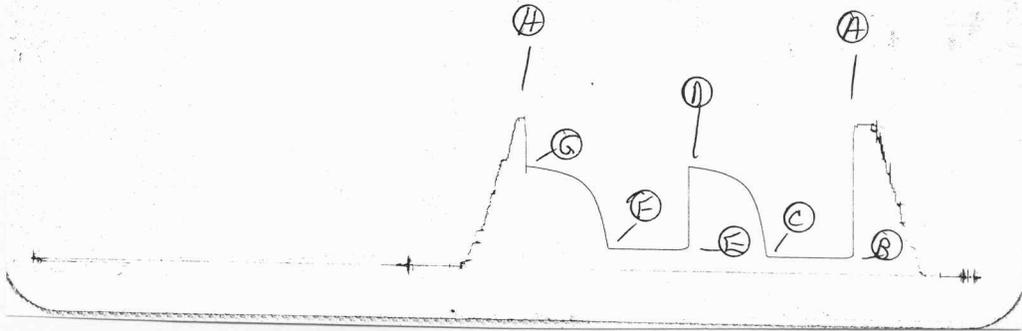
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
FINAL SHUT-IN PERIOD					
49	5:11: 0	3.100	221.000	94.00	101.000
50	5:13:59	3.150	314.000	94.00	93.000
51	5:17: 0	3.200	372.000	94.00	58.000
52	5:20: 0	3.250	413.000	94.00	41.000
53	5:23: 0	3.300	445.000	94.00	32.000
54	5:26: 0	3.350	469.000	94.00	24.000
55	5:28:59	3.400	488.000	94.00	19.000
56	5:32: 0	3.450	503.000	94.00	15.000
57	5:35: 0	3.500	515.000	94.00	12.000
58	5:38: 0	3.550	525.000	94.00	10.000
59	5:41: 0	3.600	533.000	94.00	8.000
60	5:44: 0	3.650	539.000	94.00	6.000
61	5:46:59	3.700	546.000	94.00	7.000
62	5:50: 0	3.750	551.000	94.00	5.000
63	5:53: 0	3.800	554.000	94.00	3.000
64	5:56: 0	3.850	559.000	94.00	5.000
65	5:59: 0	3.900	562.000	94.00	3.000
66	6: 1:59	3.950	565.000	94.00	3.000
67	6: 5: 0	4.000	568.000	94.00	3.000
68	6: 8: 0	4.050	571.000	94.00	3.000
69	6:11: 0	4.100	573.000	94.00	2.000

WESTERN TESTING CO. INC.

1051 DST #1

KT 17458

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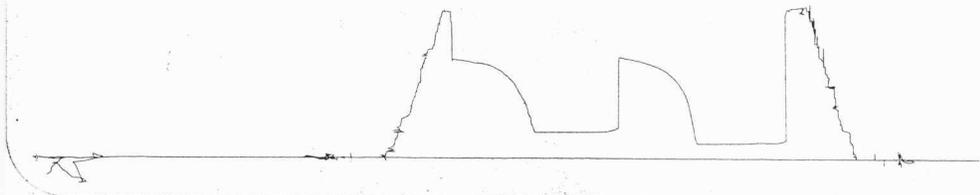


Inside Recorder

4332 DST #1

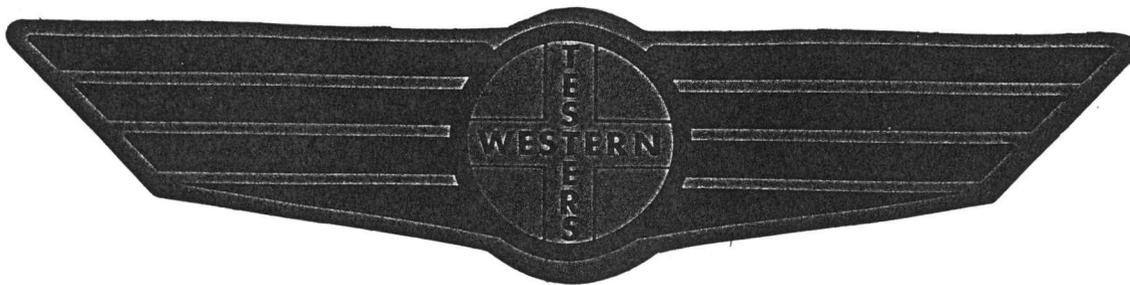
KT 17458

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Outside Recorder

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

COMPANY CHARLES TATUM OIL OPERATOR LEASE & WELL NO. NETTIE N. PATTON SEC. 21 TWP. 32S RGE. 10E TEST NO. 2 DATE 10/12/91  
TRUST # 1

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 10-12-91 TICKET : 17459  
CUSTOMER : CHARLES TATUM OIL OPERATOR LEASE : NETTIE N. PATTON  
WELL : 1 TEST: 2 GEOLOGIST : ELSTER TRUST  
ELEVATION : 1030 GL FORMATION : MISSISSIPPI  
SECTION : 21 TOWNSHIP : 32S  
RANGE : 10E COUNTY : CHAUTAUQUA STATE : KANSAS  
GAUGE SN# : 1051 RANGE : 4250 CLOCK : 12

INTERVAL FROM : 2013 TO : 2043 TOTAL DEPTH : 2043  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 2008 SIZE : 6.63  
PACKER DEPTH : 2013 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : GAINES DRILLING  
MUD TYPE : CHEMICAL VISCOSITY : 41  
WEIGHT : 9.1 WATER LOSS (CC) : 12.0  
CHLORIDES (PPM) : 1200  
JARS-MAKE : SERIAL NUMBER :  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 338 FT I.D. inch : 2.50  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 1655 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 30 FT ANCHOR SIZE : 5.50  
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75  
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5XH

BLOW COMMENT #1 : INITIAL FLOW PERIOD WEAK BLOW DEPLEATING TO A  
BLOW COMMENT #2 : VERY WEAK BLOW.  
BLOW COMMENT #3 : FINAL FLOW PERIOD VERY WEAK BLOW FOR 15 MINUTES  
BLOW COMMENT #4 : AND DIED.

RECOVERED : 25 FT OF: OIL CUT MUD

Total Barrels Fluid = 0.15  
Total Fluid Prod Rate = 1.68 BFPD  
Indicated Wtr Rate = 0.17 BWPD

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

SET PACKER(S) : 3:40 A.M.

TIME STARTED OFF BOTTOM : 7:40 A.M.

WELL TEMPERATURE : 115

INITIAL HYDROSTATIC PRESSURE

(A) 1011

INITIAL FLOW PERIOD MIN: 65

(B) 71 PSI TO (C) : 71

INITIAL CLOSED IN PERIOD MIN: 60

(D) 554

FINAL FLOW PERIOD MIN: 65

(E) 76 PSI TO (F) : 76

FINAL CLOSED IN PERIOD MIN: 60

(G) 527

FINAL HYDROSTATIC PRESSURE

(H) 1011

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
-----

COMPANY : CHARLES TATUM OIL OPERATOR  
RIG : CHAUTAUQUA-KANSAS  
FIELD : NETTIE N. PATTON TRUST  
WELL : 1  
DATE : 10-12-91  
GAUGE NO : 1051

OPERATIONAL COMMENTS

COMPANY : CHARLES TATUM OIL OPERATOR  
 WELL : 1  
 GAUGE # : 1051  
 DATE : 12/10/91

FIELD : NETTIE N. PATTON TRUST  
 JOB # : 17459  
 DEPTH : 2043  
 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	3:40: 0	0.000	71.000	115.00	0.000
3	3:44:59	0.083	71.000	115.00	0.000
4	3:50: 0	0.167	71.000	115.00	0.000
5	3:55: 0	0.250	71.000	115.00	0.000
6	3:59:59	0.333	71.000	115.00	0.000
7	4: 5: 0	0.417	71.000	115.00	0.000
8	4:10: 0	0.500	71.000	115.00	0.000
9	4:14:59	0.583	71.000	115.00	0.000
10	4:20: 0	0.667	71.000	115.00	0.000
11	4:25: 0	0.750	71.000	115.00	0.000
12	4:29:59	0.833	71.000	115.00	0.000
13	4:35: 0	0.917	71.000	115.00	0.000
14	4:40: 0	1.000	71.000	115.00	0.000
15	4:44:59	1.083	71.000	115.00	0.000
INITIAL SHUT-IN PERIOD					
16	4:47:59	1.133	89.000	115.00	18.000
17	4:50:59	1.183	191.000	115.00	102.000
18	4:53:59	1.233	282.000	115.00	91.000
19	4:56:59	1.283	350.000	115.00	68.000
20	4:59:59	1.333	398.000	115.00	48.000
21	5: 2:59	1.383	430.000	115.00	32.000
22	5: 5:59	1.433	452.000	115.00	22.000
23	5: 8:59	1.483	474.000	115.00	22.000
24	5:11:59	1.533	488.000	115.00	14.000
25	5:14:59	1.583	501.000	115.00	13.000
26	5:17:59	1.633	513.000	115.00	12.000
27	5:20:59	1.683	520.000	115.00	7.000
28	5:23:59	1.733	527.000	115.00	7.000
29	5:26:59	1.783	532.000	115.00	5.000
30	5:29:59	1.833	537.000	115.00	5.000
31	5:32:59	1.883	540.000	115.00	3.000
32	5:35:59	1.933	546.000	115.00	6.000
33	5:38:59	1.983	548.000	115.00	2.000
34	5:41:59	2.033	551.000	115.00	3.000
35	5:44:59	2.083	554.000	115.00	3.000
FINAL FLOW PERIOD					
36	5:46: 0	2.100	76.000	115.00	-478.000
37	5:49:59	2.167	76.000	115.00	0.000
38	5:55: 0	2.250	76.000	115.00	0.000
39	5:59:59	2.333	76.000	115.00	0.000
40	6: 4:59	2.417	76.000	115.00	0.000
41	6:10: 0	2.500	76.000	115.00	0.000
42	6:14:59	2.583	76.000	115.00	0.000
43	6:19:59	2.667	76.000	115.00	0.000
44	6:25: 0	2.750	76.000	115.00	0.000
45	6:29:59	2.833	76.000	115.00	0.000
46	6:34:59	2.917	76.000	115.00	0.000
47	6:40: 0	3.000	76.000	115.00	0.000
48	6:44:59	3.083	76.000	115.00	0.000
49	6:49:59	3.167	76.000	115.00	0.000
FINAL SHUT-IN PERIOD					
50	6:52:59	3.217	84.000	115.00	8.000
51	6:55:59	3.267	153.000	115.00	69.000

COMPANY : CHARLES TATUM OIL OPERATOR  
WELL : 1  
GAUGE # : 1051  
DATE : 12/10/91

FIELD : NETTIE N. PATTON TRUST  
JOB # : 17459  
DEPTH : 2043  
TEST :

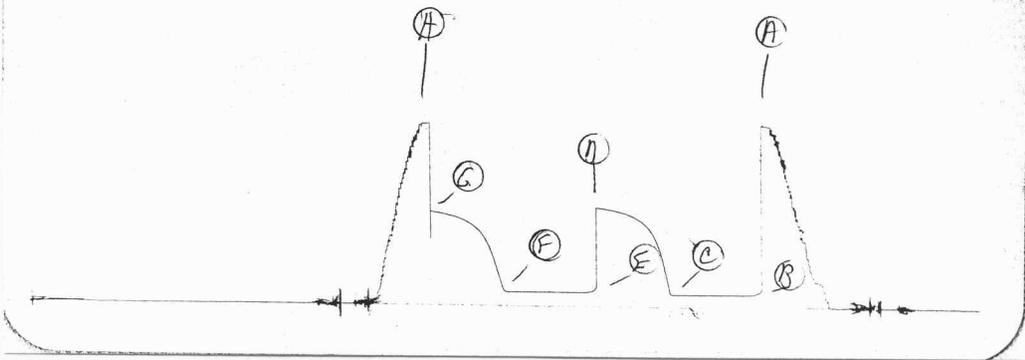
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
52	6:58:59	3.317	219.000	115.00	66.000
53	7: 1:59	3.367	284.000	115.00	65.000
54	7: 4:59	3.417	340.000	115.00	56.000
55	7: 7:59	3.467	377.000	115.00	37.000
56	7:10:59	3.517	409.000	115.00	32.000
57	7:13:59	3.567	430.000	115.00	21.000
58	7:16:59	3.617	449.000	115.00	19.000
59	7:19:59	3.667	463.000	115.00	14.000
60	7:22:59	3.717	476.000	115.00	13.000
61	7:25:59	3.767	486.000	115.00	10.000
62	7:28:59	3.817	495.000	115.00	9.000
63	7:31:59	3.867	502.000	115.00	7.000
64	7:34:59	3.917	505.000	115.00	3.000
65	7:37:59	3.967	511.000	115.00	6.000
66	7:40:59	4.017	516.000	115.00	5.000
67	7:43:59	4.067	520.000	115.00	4.000
68	7:46:59	4.117	523.000	115.00	3.000
69	7:49:59	4.167	527.000	115.00	4.000

WESTERN TESTING CO. INC.

1051 DST#2

~~KT~~ KT 17459

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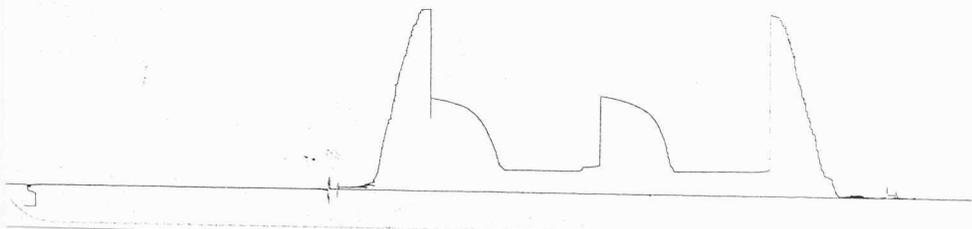


Inside Recorder

4332 - DST#2

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Outside Recorder