

24-16-14W

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FORMATION TEST REPORT

JAN 28 1988
KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

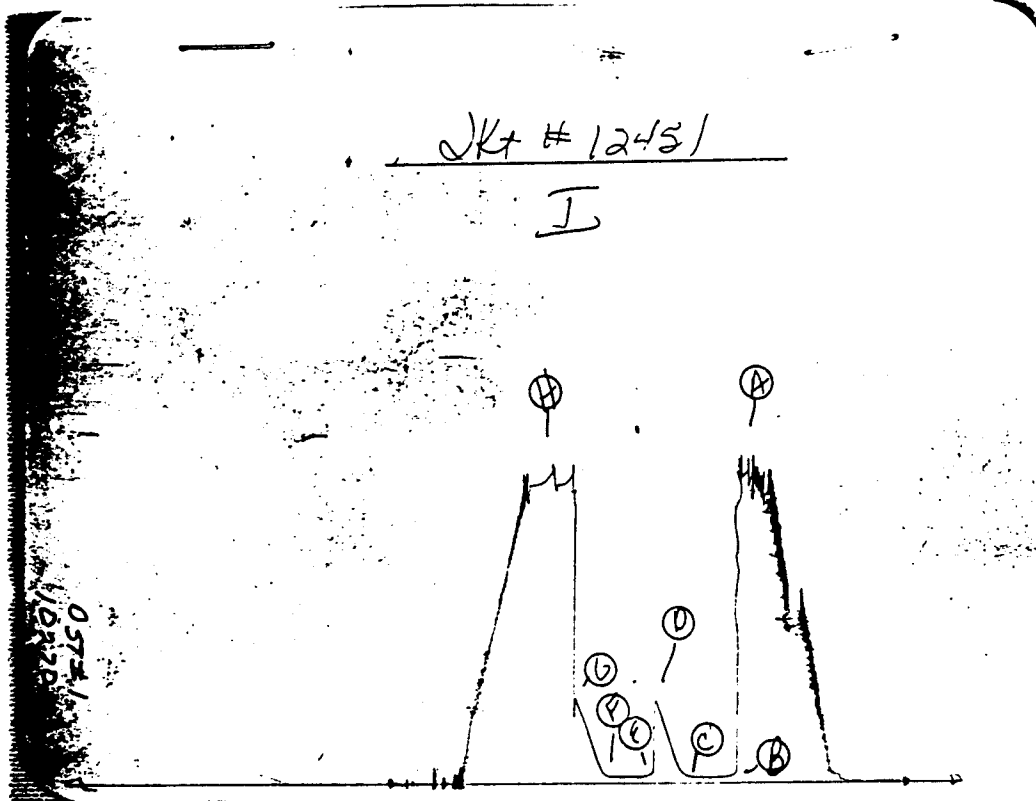
Phone (316) 262-5861

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STATE CORPORATION COMMISSION

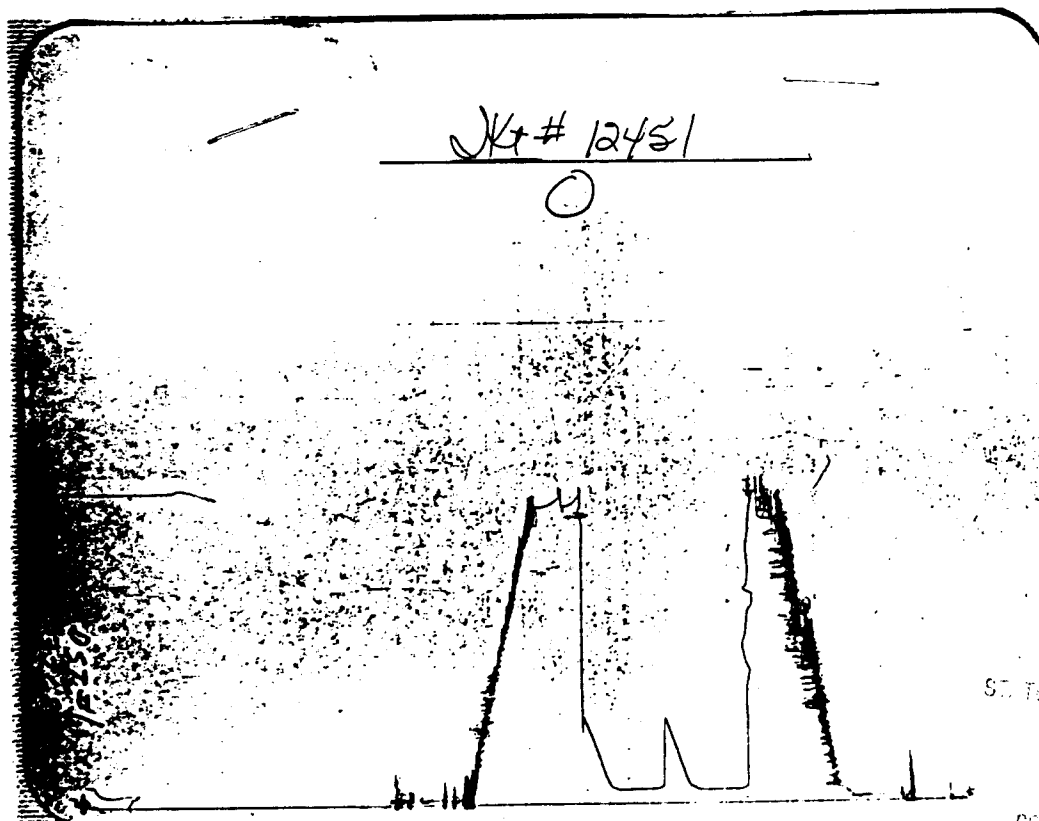
JAN 27 1988

CONSERVATION DIVISION
Wichita, Kansas

COMPANY H&C OIL OPER & CNG PROD CO. LEASE & WELL NO. BRADSHAW #1-24 SEC. 24 TWP. 16SRGE. 14WTEST NO. 1 DATE 12-31-87



Inside Recorder



Outside Recorder

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 12-31-87
CUSTOMER : H&C OIL OPER & CNG PROD. CO.
WELL : #1-24 TEST: 1
ELEVATION : NA
SECTION : 24
RANGE : 14W COUNTY : BARTON
GAUGE SN# : 10270 RANGE : 4150
TICKET : 12451
LEASE : BRADSHAW
GEOLOGIST : R. SMITH
FORMATION : ARBUCKLE
TOWNSHIP : 16S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3377 TO : 3420 TOTAL DEPTH : 3420
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3377 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN RIG #4
MUD TYPE : CHEMICAL VISCOSITY : 55
WEIGHT : 9.3 WATER LOSS (CC) : 9.6
CHLORIDES (PPM) : 9000
JARS-MAKE : WTC SERIAL NUMBER : 100
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 120 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3237 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 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 : 4.5 XH

BLOW COMMENT #1 : INITIAL FLOW-VERY WEAK BLOW DIED IN 20 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-NO BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

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OCT 31 1988

27 1988

OK. J. H. HEDY DIVISION
Wichita, Kansas

RECOVERED : 10 FT OF: MUD

Total Barrels Fluid = 0.05
Total Fluid Prod Rate = 1.13 BFPD
Indicated Wtr Rate = 0.11 BWPD

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

SET PACKER(S) : 5:45 AM
WELL TEMPERATURE : 107

TIME STARTED OFF BOTTOM : 7:45 AM

INITIAL HYDROSTATIC PRESSURE	(A)	1690	
INITIAL FLOW PERIOD MIN: 30	(B)	27	PSI TO (C) : 30
INITIAL CLOSED IN PERIOD MIN: 30	(D)	443	
FINAL FLOW PERIOD MIN: 30	(E)	33	PSI TO (F) : 33
FINAL CLOSED IN PERIOD MIN: 30	(G)	463	
FINAL HYDROSTATIC PRESSURE	(H)	1690	

STATE CORP. OF OKLAHOMA

JUN 27 1988

COMMISSIONER OF REVENUE
OKLAHOMA

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : H&C OIL OPER & CNG PROD. CO.
RIG : BARTON-KANSAS
FIELD : BRADSHAW
WELL : #1-24
DATE : 12-31-87
GAUGE NO : 10270

OPERATIONAL COMMENTS

RECEIVED
STATE CORPORATION COMMISSION

JAN 27 1988

CONSERVATION DIVISION
Wichita, Kansas

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FIELD : BRADSHAW
JOB # : 12451
DEPTH : 3420
TEST :
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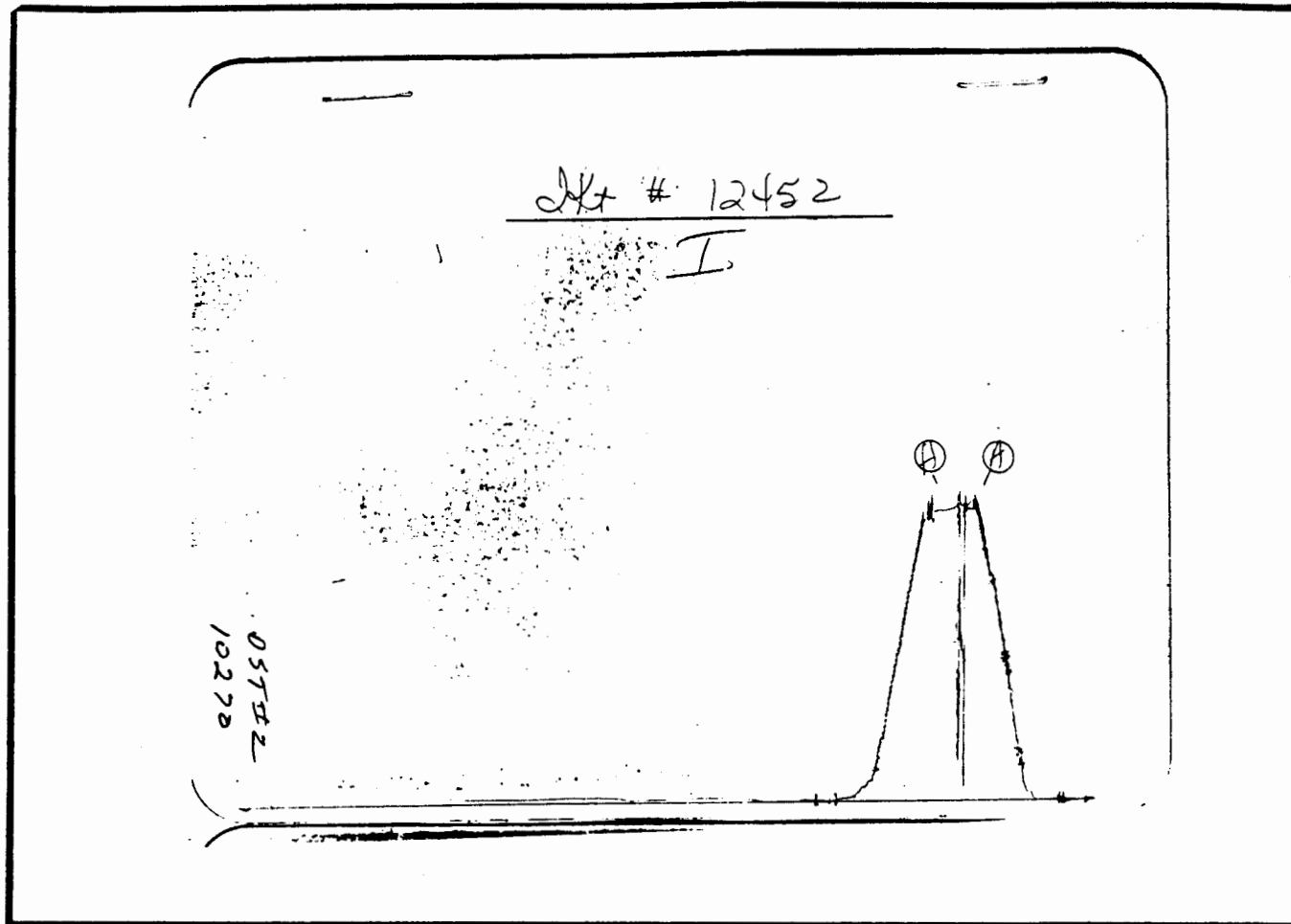
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P P1-P(1-1)
1	5:45: 0	0.000	27.000	107.00	0.000
2	5:49:59	0.083	27.000	107.00	0.000
3	5:55: 0	0.167	27.000	107.00	0.000
4	6: 0: 0	0.250	27.000	107.00	0.000
5	6: 4:59	0.333	28.000	107.00	1.000
6	6:10: 0	0.417	29.000	107.00	1.000
7	6:15: 0	0.500	30.000	107.00	1.000
8	6:18: 0	0.550	32.000	107.00	2.000
9	6:21: 0	0.600	38.000	107.00	6.000
10	6:24: 0	0.650	52.000	107.00	14.000
11	6:27: 0	0.700	82.000	107.00	30.000
12	6:30: 0	0.750	137.000	107.00	55.000
13	6:33: 0	0.800	202.000	107.00	65.000
14	6:36: 0	0.850	274.000	107.00	72.000
15	6:39: 0	0.900	339.000	107.00	65.000
16	6:42: 0	0.950	407.000	107.00	68.000
17	6:45: 0	1.000	443.000	107.00	36.000
18	6:46: 0	1.017	33.000	107.00	-410.000
19	6:49:59	1.083	33.000	107.00	0.000
20	6:55: 0	1.167	33.000	107.00	0.000
21	7: 0: 0	1.250	33.000	107.00	0.000
22	7: 4:59	1.333	33.000	107.00	0.000
23	7:10: 0	1.417	33.000	107.00	0.000
24	7:15: 0	1.500	33.000	107.00	0.000
25	7:18: 0	1.550	37.000	107.00	4.000
26	7:21: 0	1.600	49.000	107.00	12.000
27	7:24: 0	1.650	87.000	107.00	38.000
28	7:27: 0	1.700	148.000	107.00	61.000
29	7:30: 0	1.750	217.000	107.00	69.000
30	7:33: 0	1.800	282.000	107.00	65.000
31	7:36: 0	1.850	344.000	107.00	62.000
32	7:39: 0	1.900	398.000	107.00	54.000
33	7:42: 0	1.950	451.000	107.00	53.000
34	7:45: 0	2.000	463.000	107.00	12.000

WESTERN TESTING CO. INC.

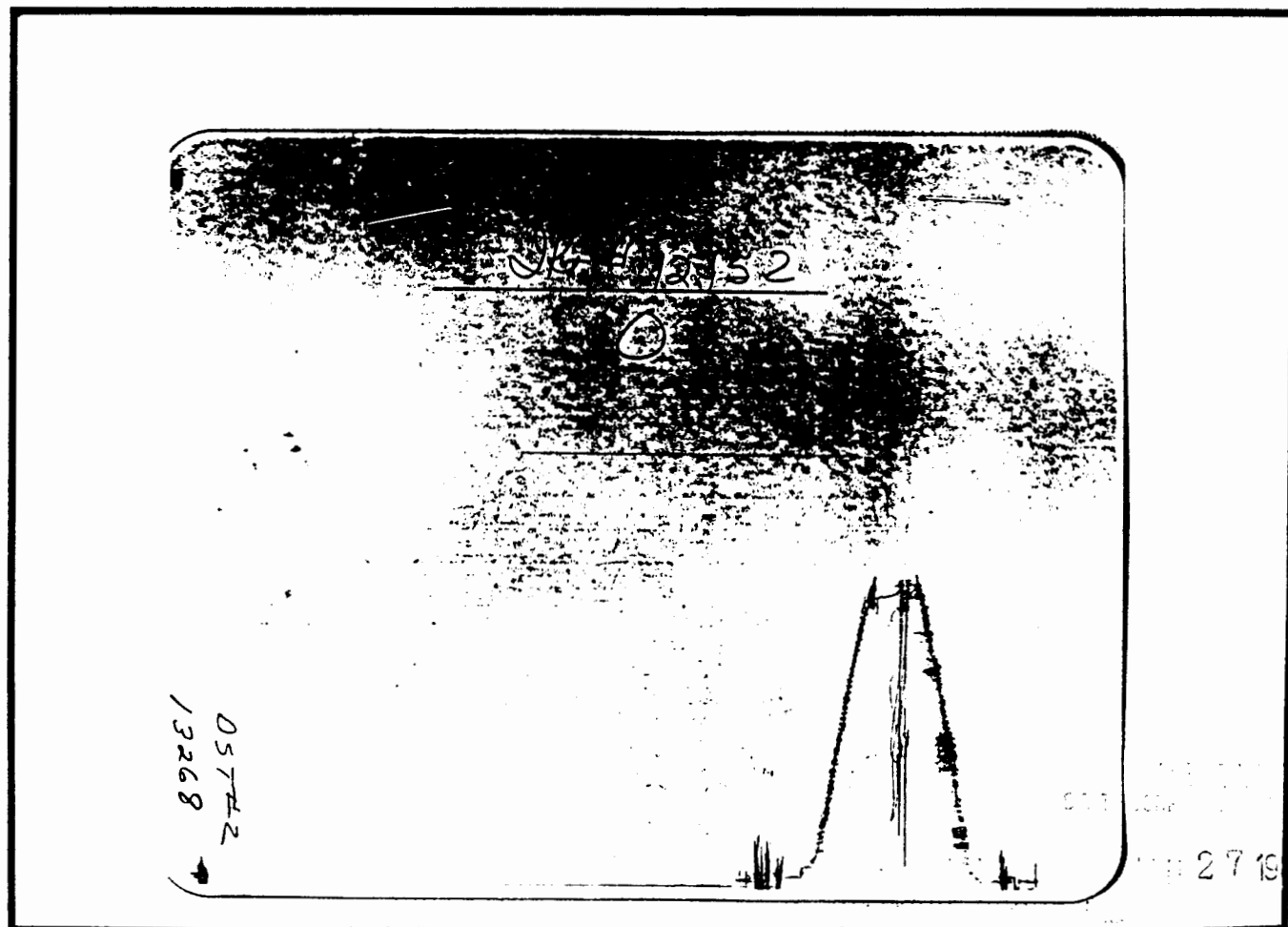
STATE COURT REPORTERS ASSOCIATION

27 1988

394 *Journal of Management Inquiry* 16(3)



Inside Recorder



Outside Recorder

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	12-31-87	TICKET	:	12452	
CUSTOMER	:	H&C OIL OPER. & CNG PROD. CO.	LEASE	:	BRADSHAW	
WELL	:	#1-24	TEST:	:	2	
ELEVATION	:	NA	GEOLOGIST	:	R. SMITH	
SECTION	:	24	FORMATION	:	ARBUCKLE	
RANGE	:	14W	TOWNSHIP	:	16S	
GAUGE SN#	:	10270	STATE	:	KANSAS	
		COUNTY :	BARTON	CLOCK	:	12
		RANGE :	4150			

INTERVAL FROM	:	3420	TO	:	3430	TOTAL DEPTH	:	3430
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3420	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	ALLEN RIG #4			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	50
WEIGHT	:	9.4	WATER LOSS (CC)	:	7.2
CHLORIDES (PPM)	:	7000			
JARS-MAKE	:	WTC	SERIAL NUMBER	:	100
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	150	FT	I.D. inch	:	2.20
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3250	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	10	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 :
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

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CALTECO

JAN 27 1988

WTC

RECOVERED : 0 FT OF: MUD

Total Barrels Fluid = 0.00

Total Fluid Prod Rate = 0.00 BFPD

REMARK 1 : MISRUN: PACKER FAILURE-SET PACKER TWICE.

REMARK 2 :

REMARK 3 :

REMARK 4 :

SET PACKER(S) :

TIME STARTED OFF BOTTOM :

WELL TEMPERATURE : 0

INITIAL HYDROSTATIC PRESSURE

(A) 1711

INITIAL FLOW PERIOD MIN: 0

(B) 0 PSI TO (C) : 0

INITIAL CLOSED IN PERIOD MIN: 0

(D) 0

FINAL FLOW PERIOD MIN: 0

(E) 0 PSI TO (F) : 0

FINAL CLOSED IN PERIOD MIN: 0

(G) 0

FINAL HYDROSTATIC PRESSURE

(H) 1648

CONVENTION SPECIAL
27 1988

FORMATION TEST REPORT



Home Office:

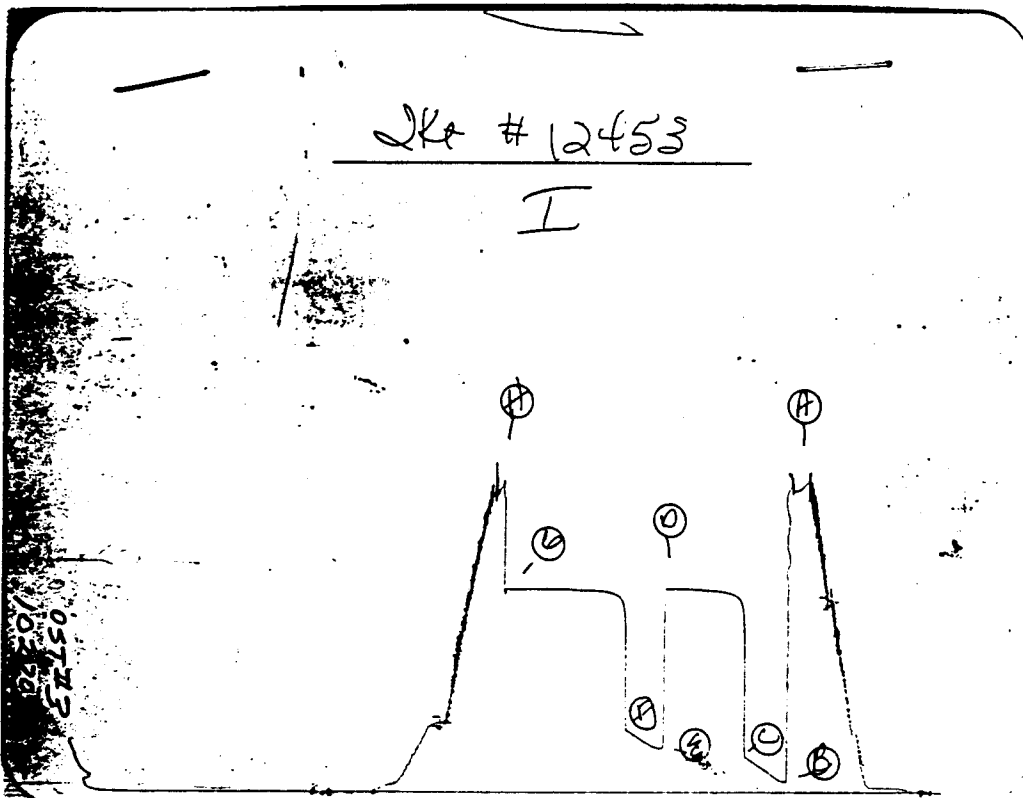
Wichita, Kansas 67201

P.O. Box 1539

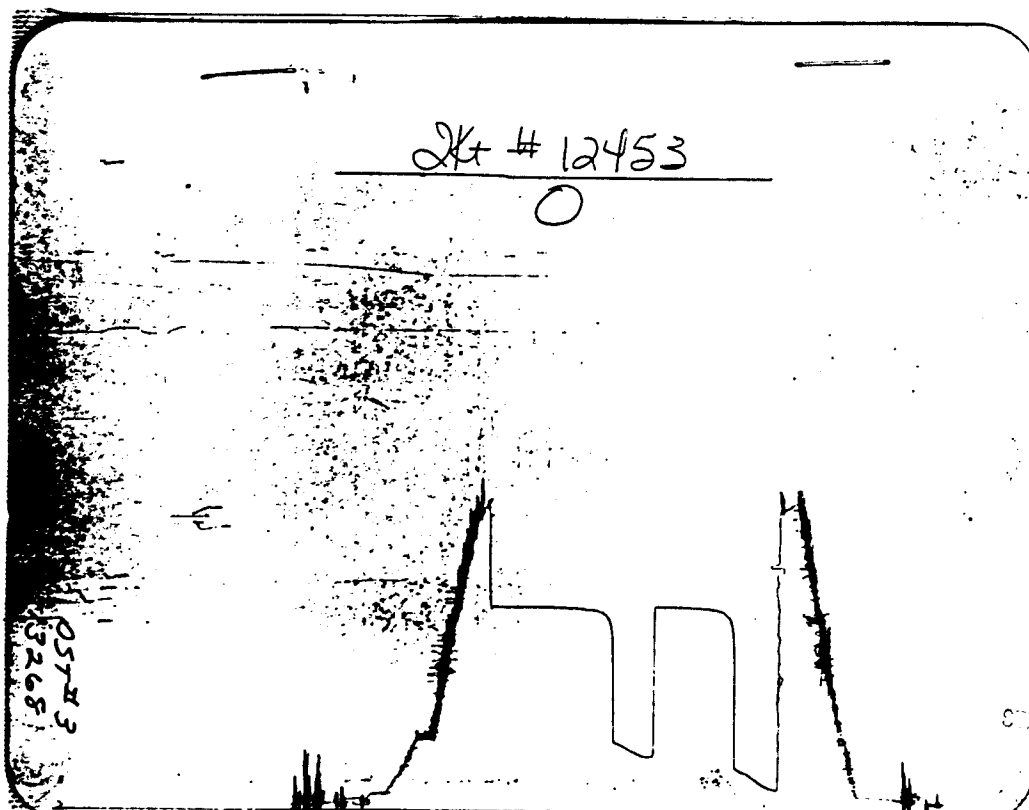
Phone (316) 262-5861

RECEIVED
STATE OF KANSAS
JAN 27 1988
COMMERCIAL
Wichita, Kansas

COMPANY H&C OIL OPER & CNG PROD CO. LEASE & WELL NO. BRADSHAW #1-24 SEC. 24 TWP. 16SRGE. 14WTEST NO. 3 DATE 12-31-87



Inside Recorder



Outside Recorder

DATE 27 1988

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 12-31-87	TICKET	: 12453
CUSTOMER	: H&C OIL OPER. & CNG PROD. CO.	LEASE	: BRADSHAW
WELL	: #1-24 TEST: 3	GEOLOGIST	: R. SMITH
ELEVATION	: NA	FORMATION	: ARBUCKLE
SECTION	: 24	TOWNSHIP	: 16S
RANGE	: 14W	STATE	: KANSAS
GAUGE SN#	: 10270	CLOCK	: 12
COUNTY	: BARTON		
RANGE	: 4150		

INTERVAL FROM	: 3378	TO	: 3430	TOTAL DEPTH	: 3430
DEPTH OF SELECTIVE ZONE	:				
PACKER DEPTH	: 3378	SIZE	: 6.63		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		

DRILLING CON.	: ALLEN RIG #4		
MUD TYPE	: CHEMICAL	VISCOSITY	: 50
WEIGHT	: 9.4	WATER LOSS (CC)	: 7.2
CHLORIDES (PPM)	: 7000		
JARS-MAKE	: WTC	SERIAL NUMBER	: 100
DID WELL FLOW ?	: NO	REVERSED OUT ?	: NO

DRILL COLLAR LENGTH	: 90	FT	I.D. inch	: 2.20
WEIGHT PIPE LENGTH	: 0	FT	I.D. inch	: 0.00
DRILL PIPE LENGTH	: 3268	FT	I.D. inch	: 3.80
TEST TOOL LENGTH	: 20	FT	TOOL SIZE	: 5.50
ANCHOR LENGTH	: 52	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-FAIR BLOW BUILDING TO A STRONG BLOW IN 10 MINUTES.

BLOW COMMENT #2 : FINAL FLOW-STRONG BLOW THROUGHOUT.

BLOW COMMENT #3 :

BLOW COMMENT #4 :

DATE 27 198

RECOVERED : 185 FT OF: MUDDY WATER
RECOVERED : 600 FT OF: WATER

CHLORIDES: 17000 PPM

Total Barrels Fluid = 10.17
Total Fluid Prod Rate = 244.11 BFPD
Indicated Wtr Rate = 216.13 BWPD

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

SET PACKER(S) : 9:25 PM

TIME STARTED OFF BOTTOM : 12:55 AM

WELL TEMPERATURE : 112

INITIAL HYDROSTATIC PRESSURE

(A) 1639

INITIAL FLOW PERIOD MIN: 30

(B) 60 PSI TO (C) : 192

INITIAL CLOSED IN PERIOD MIN: 60

(D) 1109

FINAL FLOW PERIOD MIN: 30

(E) 243 PSI TO (F) : 342

FINAL CLOSED IN PERIOD MIN: 90

(G) 1106

FINAL HYDROSTATIC PRESSURE

(H) 1639

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STATE COMMISSION
JAN 27 1988
CONSTRUCTION DIVISION
Wichita, Kansas

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : H&C OIL OPER. & CNG PROD. CO.
RIG : BARTON-KANSAS
FIELD : BRADSHAW
WELL : #1-24
DATE : 12-31-87
GAUGE NO : 10270

OPERATIONAL COMMENTS

RECEIVED
STATE OF KANSAS - GEOLOGICAL COMMISSION

27 1988

CONTRACT NO. 10270
WICHITA, KANSAS

COMPANY : H&C OIL OPER. & CNG PROD. CO.
WELL : #1-24
GAUGE # : 10270
DATE : 31/12/87

FIELD : BRADSHAW
JOB # : 12453
DEPTH : 3430
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P P1-P(1-1)
1	9:25: 0	0.000	60.000	112.00	0.000
2	9:29:59	0.083	66.000	112.00	6.000
3	9:35: 0	0.167	92.000	112.00	26.000
4	9:40: 0	0.250	119.000	112.00	27.000
5	9:44:59	0.333	145.000	112.00	26.000
6	9:50: 0	0.417	170.000	112.00	25.000
7	9:55: 0	0.500	192.000	112.00	22.000
8	9:58: 0	0.550	920.000	112.00	728.000
9	10: 1: 0	0.600	1044.000	112.00	124.000
10	10: 4: 0	0.650	1067.000	112.00	23.000
11	10: 7: 0	0.700	1079.000	112.00	12.000
12	10:10: 0	0.750	1086.000	112.00	7.000
13	10:13: 0	0.800	1090.000	112.00	4.000
14	10:16: 0	0.850	1093.000	112.00	3.000
15	10:19: 0	0.900	1097.000	112.00	4.000
16	10:22: 0	0.950	1099.000	112.00	2.000
17	10:25: 0	1.000	1101.000	112.00	2.000
18	10:28: 0	1.050	1103.000	112.00	2.000
19	10:31: 0	1.100	1104.000	112.00	1.000
20	10:34: 0	1.150	1105.000	112.00	1.000
21	10:37: 0	1.200	1106.000	112.00	1.000
22	10:40: 0	1.250	1107.000	112.00	1.000
23	10:43: 0	1.300	1108.000	112.00	1.000
24	10:46: 0	1.350	1109.000	112.00	1.000
25	10:49: 0	1.400	1109.000	112.00	0.000
26	10:52: 0	1.450	1109.000	112.00	0.000
27	10:55: 0	1.500	1109.000	112.00	0.000
28	10:56: 0	1.517	243.000	112.00	-866.000
29	10:59:59	1.583	245.000	112.00	2.000
30	11: 5: 0	1.667	258.000	112.00	13.000
31	11:10: 0	1.750	280.000	112.00	22.000
32	11:14:59	1.833	306.000	112.00	26.000
33	11:20: 0	1.917	330.000	112.00	24.000
34	11:25: 0	2.000	342.000	112.00	12.000
35	11:28: 0	2.050	956.000	112.00	614.000
36	11:31: 0	2.100	1051.000	112.00	95.000
37	11:34: 0	2.150	1071.000	112.00	20.000
38	11:37: 0	2.200	1079.000	112.00	8.000
39	11:40: 0	2.250	1088.000	112.00	9.000
40	11:43: 0	2.300	1090.000	112.00	2.000
41	11:46: 0	2.350	1094.000	112.00	4.000
42	11:49: 0	2.400	1097.000	112.00	3.000
43	11:52: 0	2.450	1098.000	112.00	1.000
44	11:55: 0	2.500	1099.000	112.00	1.000
45	11:58: 0	2.550	1100.000	112.00	1.000
46	12: 1: 0	2.600	1101.000	112.00	1.000
47	12: 4: 0	2.650	1102.000	112.00	1.000
48	12: 7: 0	2.700	1103.000	112.00	1.000
49	12:10: 0	2.750	1103.000	112.00	0.000
50	12:13: 0	2.800	1104.000	112.00	1.000
51	12:16: 0	2.850	1104.000	112.00	0.000
52	12:19: 0	2.900	1105.000	112.00	1.000

COMPANY : H&C OIL OPER. & CNG PROD. CO.
WELL : #1-24
GAUGE # : 10270
DATE : 31/12/87

FIELD : BRADSHAW
JOB # : 12453
DEPTH : 3430
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P P1-P(1-1)
53	12:22: 0	2.950	1105.000	112.00	0.000
54	12:25: 0	3.000	1106.000	112.00	1.000
55	12:28: 0	3.050	1106.000	112.00	0.000
56	12:31: 0	3.100	1106.000	112.00	0.000
57	12:34: 0	3.150	1106.000	112.00	0.000
58	12:37: 0	3.200	1106.000	112.00	0.000
59	12:40: 0	3.250	1106.000	112.00	0.000
60	12:43: 0	3.300	1106.000	112.00	0.000
61	12:46: 0	3.350	1106.000	112.00	0.000
62	12:49: 0	3.400	1106.000	112.00	0.000
63	12:52: 0	3.450	1106.000	112.00	0.000
64	12:55: 0	3.500	1106.000	112.00	0.000

WESTERN TESTING CO. INC.

RECEIVED
STATE COM. 10-1-88

JAN 27 1988

CONSERVATION DIV
W. Va. Dept. of Energy