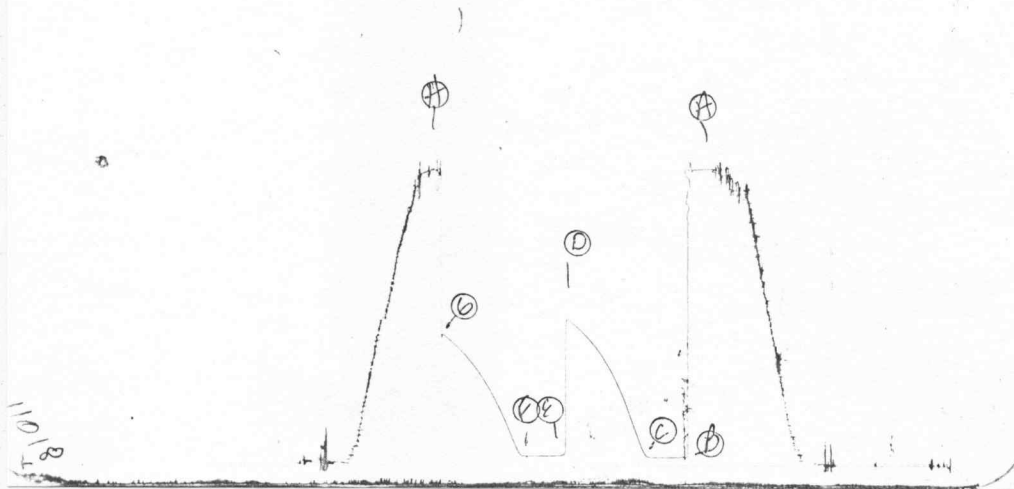
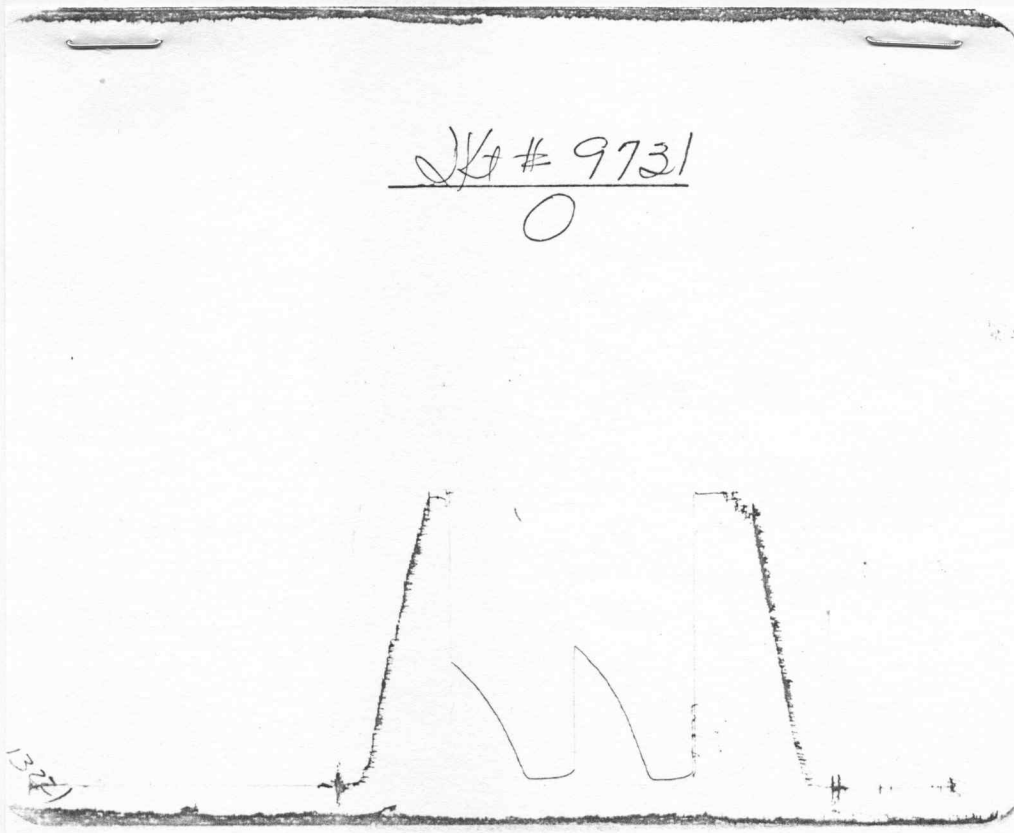


Wt # 9731
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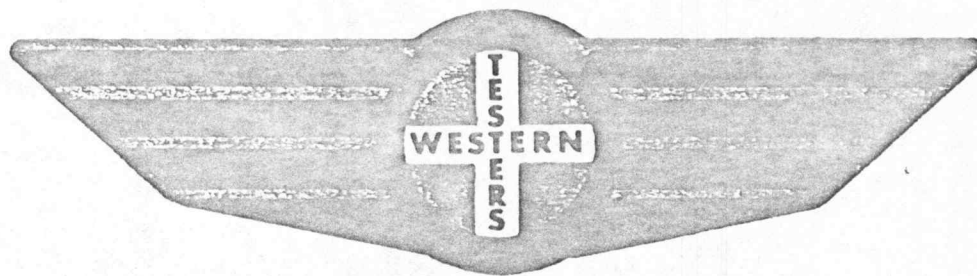
Inside Recorder

Wt # 9731
O



Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY NATIONAL PETROLEUM RESERVE, INC. LEASE & WELL NO. #1 HOFFMAN

SEC. 25 TWP. 17S RGE. 10W TEST NO. 1 DATE 12-2-85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 12-2-85
CUSTOMER: NATIONAL PETROLEUM RESERVES
WELL: 1 TEST: 1
ELEVATION (KB): 1791 FORMATION: CONGLOM/ARBUCKLE
SECTION: 25 TOWNSHIP: 17S
RANGE: 10W COUNTY: ELLSWORTH STATE: KANSAS
GAUGE SN #11018 RANGE: 4425 CLOCK: 12

TICKET #9731
LEASE: HOFFMAN
GEOLOGIST: H. CRENSHAW

INTERVAL TEST FROM: 3182 FT TO: 3263 FT TOTAL DEPTH: 3263 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3177 FT SIZE: 6 5/8 IN PACKER DEPTH: 3182 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: MOHAWK DRLG. RIG #8
MUD TYPE: STARCH VISCOSITY: 37
WEIGHT: 9.9 WATER LOSS (CC): 12.8

CHLORIDES (P.P.M.): 104000

JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?

DRILL COLLAR LENGTH:	FT	I.D.:	IN
WEIGHT PIPE LENGTH:	259 FT	I.D.:	2.7 IN
DRILL PIPE LENGTH:	2902 FT	I.D.:	3.8 IN
TEST TOOL LENGTH:	21 FT	TOOL SIZE:	4 3/4 IN
ANCHOR LENGTH:	81 FT	SIZE:	4 1/2 IN
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: INITIAL FLOW PERIOD 2 INCH BLOW.
FINAL FLOW PERIOD 1/4 INCH BLOW
DECREASED TO 1/8 INCH BLOW.

RECOVERED: 50	FT	OF: MUD WITH SHOW OF OIL IN TOP OF TOOL.
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

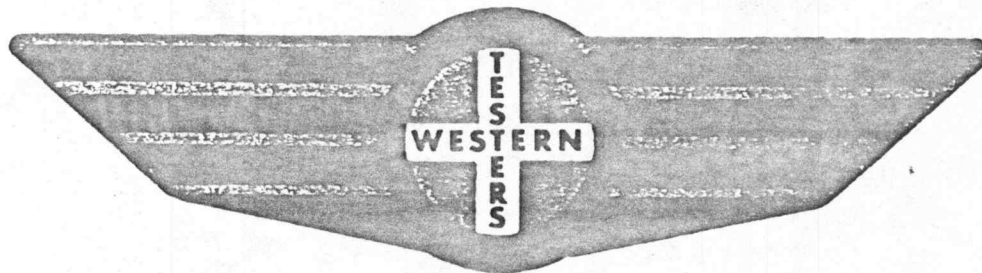
REMARKS:

TIME SET PACKER(S): 11:15 AM
WELL TEMPERATURE: 106 °F
INITIAL HYDROSTATIC PRESSURE:

TIME STARTED OFF BOTTOM: 2:15 PM

INITIAL FLOW PERIOD	MIN: 30	(A) 1685	PSI
INITIAL CLOSED IN PERIOD	MIN: 60	(B) 46	PSI TO (C) 47 PSI
FINAL FLOW PERIOD	MIN: 30	(D) 836	PSI
FINAL CLOSED IN PERIOD	MIN: 63	(E) 51	PSI TO (F) 51 PSI
FINAL HYDROSTATIC PRESSURE		(G) 747	PSI
		(H) 1680	PSI

FORMATION TEST REPORT



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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 12-3-85
CUSTOMER: NATIONAL PETROLEUM RESERVES
WELL: 1 TEST: 2
ELEVATION (KB): 1791 FORMATION: ARBUCKLE
SECTION: 25 TOWNSHIP: 17S
RANGE: 10W COUNTY: ELLSWORTH STATE: KANSAS
GAUGE SN #11018 RANGE: 4425 CLOCK: 12

INTERVAL TEST FROM: 3256 FT TO: 3276 FT TOTAL DEPTH: 3276 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3251 FT SIZE: 6 5/8 IN PACKER DEPTH: 3256 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: MOHAWK DRLG. RIG #8
MUD TYPE: STARCH VISCOSITY: 48
WEIGHT: 10.0 WATER LOSS (CC): 8.2
CHLORIDES (P.P.M.): 104000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 321 FT I.D.: 2.7 IN
DRILL PIPE LENGTH: 2914 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 4 3/4 IN
ANCHOR LENGTH: 20 FT SIZE: 5 1/2 IN
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: INITIAL FLOW PERIOD 5 INCH BLOW.
FINAL FLOW PERIOD 1/4 INCH BLOW
INCREASED TO 5 INCH BLOW.

RECOVERED: 124	FT	OF: GAS ABOVE FLUID.
RECOVERED: 15	FT	OF: CLEAN GASSY OIL (43 GRAVITY).
RECOVERED: 372	FT	OF: MUDDY OIL (12% GAS; 81% OIL; 5% WATER; 2% MUD).
RECOVERED: 248	FT	OF: HEAVY MUD CUT OIL
RECOVERED:	FT	OF: (15% GAS; 73% OIL; 7% WATER; 5% MUD).
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS: SLID TOOL 10 FEET TO BOTTOM.

TIME SET PACKER(S): 3:00 AM
WELL TEMPERATURE: 110 °F

TIME STARTED OFF BOTTOM: 6:00 AM

INITIAL HYDROSTATIC PRESSURE:		(A) 1716	PSI	
INITIAL FLOW PERIOD	MIN: 30	(B) 81	PSI TO (C) 187	PSI
INITIAL CLOSED IN PERIOD	MIN: 60	(D) 1074	PSI	
FINAL FLOW PERIOD	MIN: 30	(E) 216	PSI TO (F) 267	PSI
FINAL CLOSED IN PERIOD	MIN: 60	(G) 1061	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 1698	PSI	

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 12-3-85

CUSTOMER: NATIONAL PETROLEUM RESERVES

TEST: 2

FORMATION:

TOWNSHIP: 17S

COUNTY: ELLSWORTH

RANGE: 4425

TICKET #9732

LEASE: HOFFMAN

GEOLOGIST: H. CRENSHAW

ARBUCKLE

STATE: KANSAS

CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 1716 PSI

(B) FIRST INITIAL FLOW PRESSURE: 81 PSI

(C) FIRST FINAL FLOW PRESSURE: 187 PSI

(D) INITIAL CLOSED-IN PRESSURE: 1074 PSI

(E) SECOND INITIAL FLOW PRESSURE: 216 PSI

(F) SECOND FINAL FLOW PRESSURE: 267 PSI

(G) FINAL CLOSED-IN PRESSURE: 1061 PSI

(H) FINAL HYDROSTATIC PRESSURE: 1698 PSI

WELL TEMPERATURE: 110 °F

OPEN TOOL: 3:00 AM

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	60 MIN
SECOND FLOW PRESSURE:	30 MIN	30 MIN
FINAL CLOSED-IN PRESSURE:	60 MIN	60 MIN

PRESSURE BREAKDOWN

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	81	0	187	0	216	0	267
2	5	109	3	888	5	218	3	850
3	10	124	6	946	10	230	6	920
4	15	160	9	980	15	242	9	957
5	20	172	12	1002	20	251	12	984
6	25	181	15	1014	25	261	15	999
7	30	187	18	1026	30	267	18	1012
8			21	1036			21	1022
9			24	1044			24	1030
10			27	1048			27	1035
11			30	1052			30	1040
12			33	1055			33	1043
13			36	1058			36	1046
14			39	1061			39	1049
15			42	1064			42	1052
16			45	1067			45	1055
17			48	1069			48	1057
18			51	1071			51	1058
19			54	1072			54	1059
20			57	1073			57	1060
21			60	1074			60	1061

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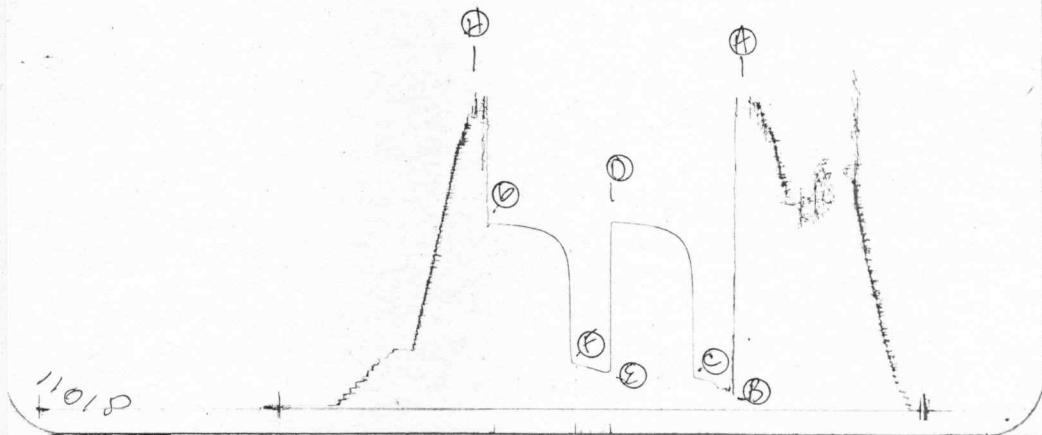
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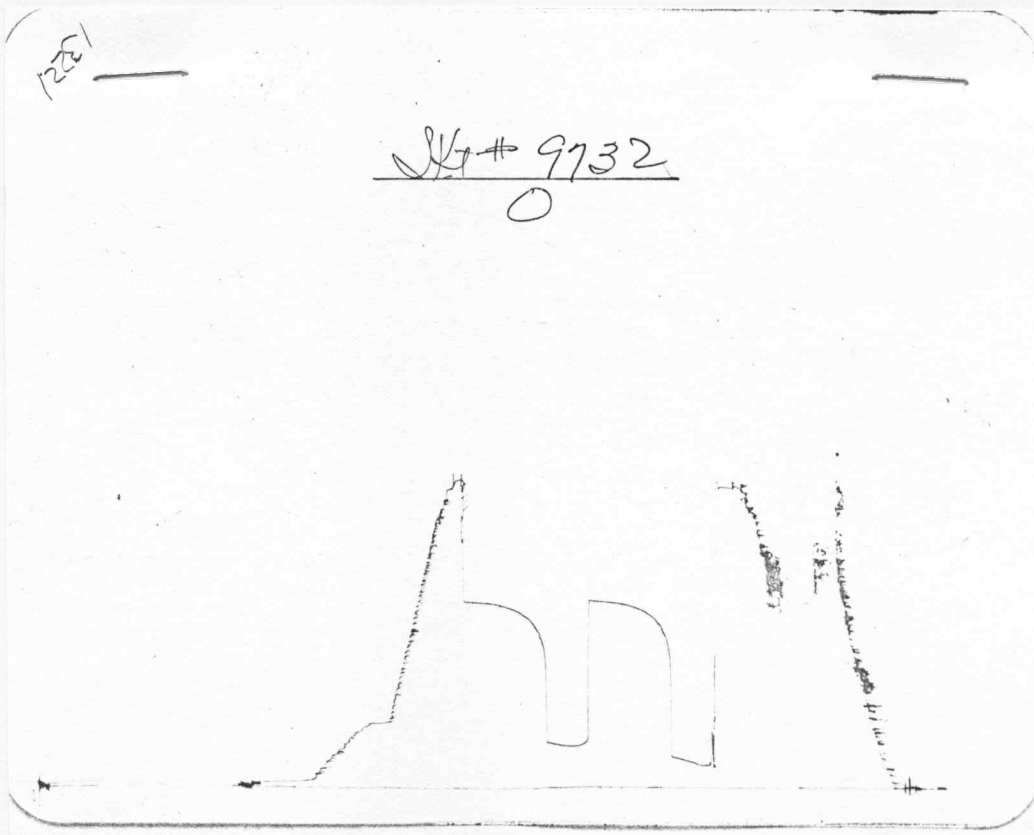
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JK # 9732
I



Inside Recorder

1221 —
JK # 9732
O



Outside Recorder