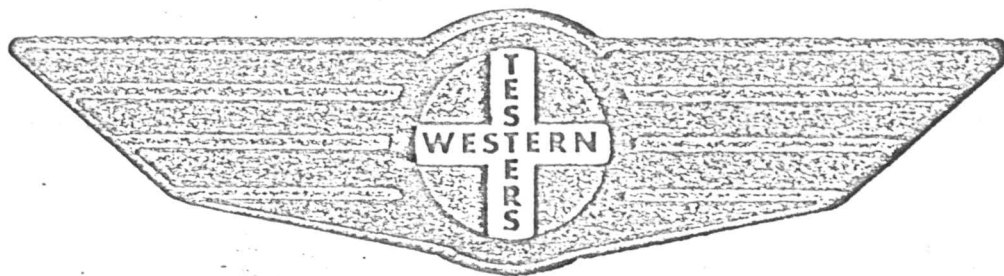


FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5-28-85
CUSTOMER: PETROLEUM ENERGY INC.
WELL: 1 TEST: 1
ELEVATION (KB): 2037 FORMATION: ARBUCKLE
SECTION: 23 TOWNSHIP: 20S
RANGE: 16W COUNTY: PAWNEE STATE: KANSAS
GAUGE SN #1563 RANGE: 4200 CLOCK: 12

INTERVAL TEST FROM: 3718 FT TO: 3747 FT TOTAL DEPTH: 3747 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3713 FT SIZE: 6 5/8 IN PACKER DEPTH: 3718 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: DUKE DRLG. RIG #2
MUD TYPE: STARCH VISCOSITY: 38
WEIGHT: 9.9 WATER LOSS (CC): 13.6
CHLORIDES (P.P.M.): 75000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? YES REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 600 FT I.D.: 2.8 IN
DRILL PIPE LENGTH: 3097 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 29 FT SIZE: 5 1/2 OD 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: STRONG BLOW THROUGHOUT TEST.
GAS TO SURFACE IN 22 MINUTES.

RECOVERED: 150	FT	OF: GAS CUT WATERY MUD.
RECOVERED: 180	FT	OF: GASSY MUDDY WATER.
RECOVERED: 1020	FT	OF: GASSY WATER.
RECOVERED:	FT	OF: CHLORIDES 48000 PPM.
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS: SEE ATTACHED GAS FLOW REPORT.

TIME SET PACKER(S): 2:03 AM	TIME STARTED OFF BOTTOM: 4:35 AM
WELL TEMPERATURE: 115 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 2041 PSI
INITIAL FLOW PERIOD MIN: 35	(B) 192 PSI TO (C) 428 PSI
INITIAL CLOSED IN PERIOD MIN: 48	(D) 1115 PSI
FINAL FLOW PERIOD MIN: 30	(E) 561 PSI TO (F) 671 PSI
FINAL CLOSED IN PERIOD MIN: 45	(G) 1115 PSI
FINAL HYDROSTATIC PRESSURE	(H) 2023 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 5-28-85

CUSTOMER: PETROLEUM ENERGY INC.

TEST: 1

FORMATION: ARBUCKLE

TOWNSHIP: 20S

COUNTY: PAWNEE

RANGE: 4200

TICKET #9858

LEASE: HANSON

GEOLOGIST: M. FLETCHER

(A) INITIAL HYDROSTATIC PRESSURE: 2041 PSI

(B) FIRST INITIAL FLOW PRESSURE: 192 PSI

(C) FIRST FINAL FLOW PRESSURE: 428 PSI

(D) INITIAL CLOSED-IN PRESSURE: 1115 PSI

(E) SECOND INITIAL FLOW PRESSURE: 561 PSI

(F) SECOND FINAL FLOW PRESSURE: 671 PSI

(G) FINAL CLOSED-IN PRESSURE: 1115 PSI

(H) FINAL HYDROSTATIC PRESSURE: 2023 PSI

WELL TEMPERATURE: 115 °F

OPEN TOOL: 2:03 AM

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	35 MIN

INITIAL CLOSED-IN PRESSURE: 45 MIN 48 MIN

SECOND FLOW PRESSURE: 30 MIN 30 MIN

FINAL CLOSED-IN PRESSURE: 45 MIN 45 MIN

PRESSURE BREAKDOWN

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	192	0	428	0	561	0	671
2	5	200	3	717	5	561	3	877
3	10	227	6	826	10	574	6	935
4	15	277	9	898	15	600	9	970
5	20	328	12	949	20	626	12	1000
6	25	373	15	988	25	655	15	1022
7	30	414	18	1016	30	671	18	1040
8	35	428	21	1038			21	1055
9			24	1054			24	1066
10			27	1068			27	1076
11			30	1078			30	1085
12			33	1087			33	1095
13			36	1096			36	1103
14			39	1103			39	1108
15			42	1109			42	1112
16			45	1113			45	1115
17			48	1115				

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WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 5-28-85
CUSTOMER: PETROLEUM ENERGY INC.
WELL: 1 TEST: 1
ELEVATION (KB): 2037 FORMATION: ARBUCKLE
SECTION: 23 TOWNSHIP: 20S
RANGE: 16W COUNTY: PAWNEE STATE: KANSAS
GAUGE SN #1563 RANGE: 4200 CLOCK: 12

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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PRE FLOW

3	MERLA	1/4 IN	15 PSIG	GAS TO SURFACE AT 2:27 AM 6550 CFPD TOO CLOSED.
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SECOND FLOW

TOOL OPEN 3:20 AM
TOO LITTLE TO GAUGE.

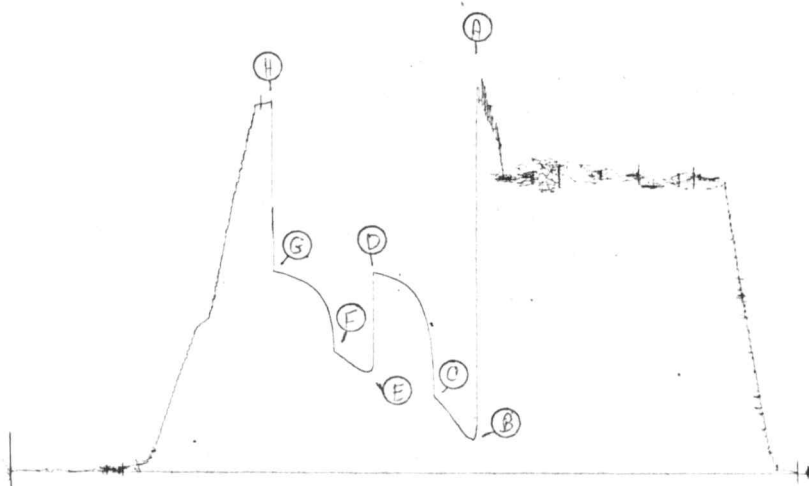
GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED:

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1563

TKT #9858

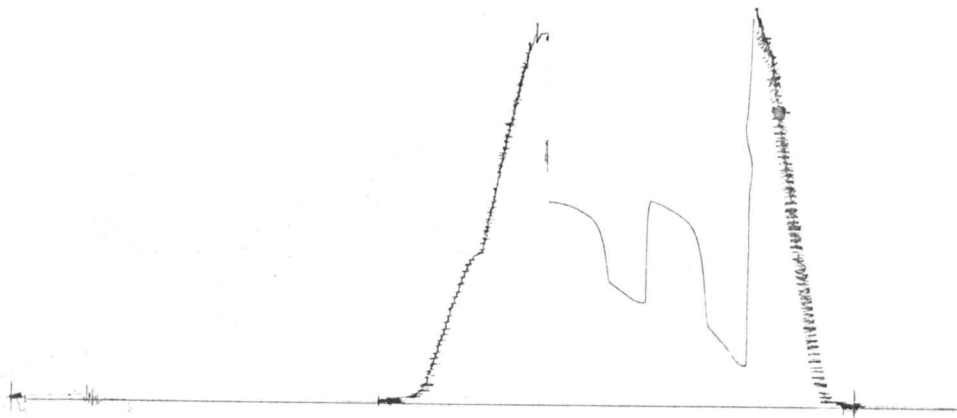
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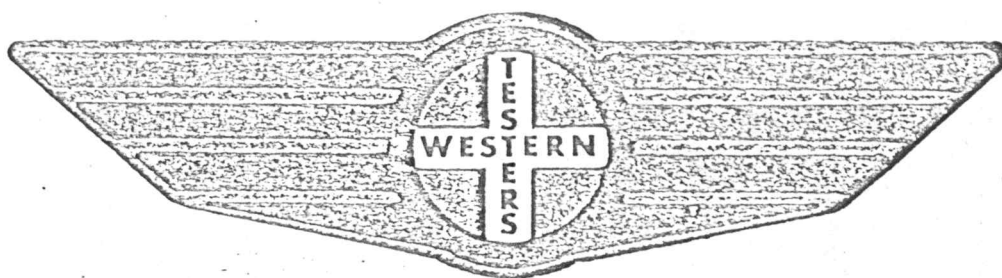
TKT #9858
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company PETROLEUM ENERGY, INC. Lease & Well No. #1 HANSON Sec. 23 Twp. 20S Rge. 16W Test No. 2 Date 5/29/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5-29-85 TICKET #9859
CUSTOMER: PETROLEUM ENERGY INC. LEASE: HANSON
WELL: 1 TEST: 2 GEOLOGIST: M. FLETCHER
ELEVATION (KB): 2037 FORMATION: ARBUCKLE
SECTION: 23 TOWNSHIP: 20S
RANGE: 16W COUNTY: PAWNEE STATE: KANSAS
GAUGE SN #1563 RANGE: 4200 CLOCK: 12

INTERVAL TEST FROM: 3752 FT TO: 3775 FT TOTAL DEPTH: 3775 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3747 FT SIZE: 6 5/8 IN PACKER DEPTH: 3752 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: DUKE DRLG. RIG #2
MUD TYPE: STARCH VISCOSITY: 45
WEIGHT: 9.9 WATER LOSS (CC): 10.4
CHLORIDES (P.P.M.): 65000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? YES REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 600 FT I.D.: 2.8 IN
DRILL PIPE LENGTH: 3131 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 23 FT SIZE: 5 1/2 OD 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: STRONG BLOW THROUGHOUT TEST.
GAS TO SURFACE IN 19 MINUTES.
TOO LITTLE TO GAUGE.

RECOVERED: 240	FT	OF: SLIGHTLY OIL & GAS CUT MUDDY WATER
RECOVERED:	FT	OF: (3% OIL; 20% MUD; 77% WATER).
RECOVERED: 2340	FT	OF: SLIGHTLY OIL & GAS CUT WATER
RECOVERED:	FT	OF: (5% OIL; 95% WATER).
RECOVERED: 360	FT	OF: GASSY WATER WITH A TRACE OF OIL.
RECOVERED:	FT	OF: CHLORIDES 36000 PPM.
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS:

TIME SET PACKER(S): 3:48 PM	TIME STARTED OFF BOTTOM: 5:50 PM
WELL TEMPERATURE: 116 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 2129 PSI
INITIAL FLOW PERIOD MIN: 35	(B) 646 PSI TO (C) 1059 PSI
INITIAL CLOSED IN PERIOD MIN: 30	(D) 1165 PSI
FINAL FLOW PERIOD MIN: 30	(E) 1142 PSI TO (F) 1181 PSI
FINAL CLOSED IN PERIOD MIN: 30	(G) 1186 PSI
FINAL HYDROSTATIC PRESSURE	(H) 2125 PSI

- 1 -

TICKET #9859
LEASE: HANSON
GEOLOGIST: M. FLETCHER
ARBUCKLE
205
STATE: KANSAS
CLOCK: 12

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TIME - GIVEN	TIME - ACTUAL
30 MIN	35 MIN
30 MIN	30 MIN
30 MIN	30 MIN
30 MIN	30 MIN

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1	0	646	0	1059	0	1142	0	1181
2	5	646	3	1113	5	1142	3	1181
3	10	724	6	1129	10	1155	6	1182
4	15	837	9	1138	15	1169	9	1182
5	20	932	12	1147	20	1174	12	1183
6	25	1000	15	1153	25	1178	15	1183
7	30	1046	18	1156	30	1181	18	1184
8	35	1059	21	1159			21	1184
9			24	1161			24	1185
10			27	1163			27	1185
11			30	1165			30	1186
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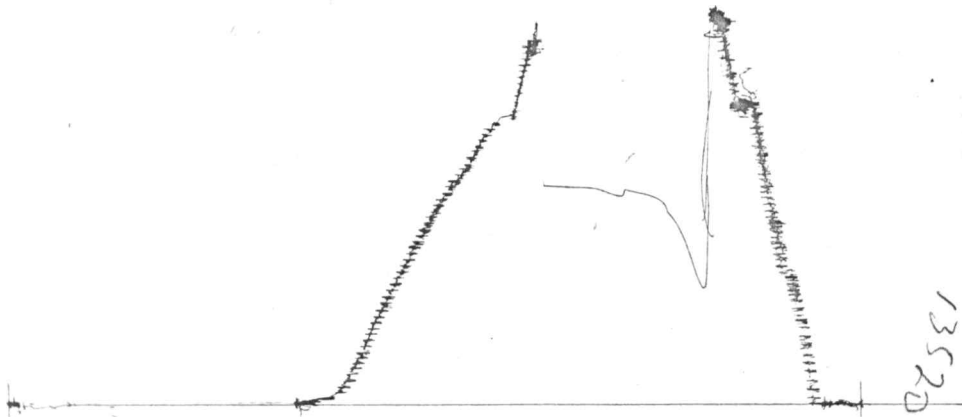
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