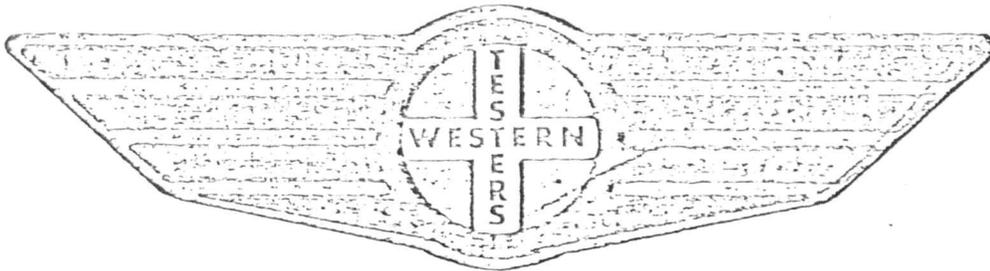


FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company FELKULUM ENERGI INC. Lease and Well No. 73 WILLIAMS Sec. 43 Twp. 103 Rge. 0W Test No. 1 Date 1/20/0

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 1/26/85 TICKET #6782  
CUSTOMER: PETROLEUM ENERGY INC. LEASE: WILLMS  
WELL: 3 TEST: 1 GEOLOGIST: WREATH  
ELEVATION (KB): 1727 FORMATION: KANSAS CITY  
SECTION: 23 TOWNSHIP: 18S  
RANGE: 8W COUNTY: RICE STATE: KANSAS  
GAUGE SN #13762 RANGE: 3925 CLOCK: 12

INTERVAL TEST FROM: 3008 FT TO: 3018 FT TOTAL DEPTH: 3018 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 3003 FT SIZE: 6 5/8 IN PACKER DEPTH: 3008 FT SIZE: 6 5/8 IN  
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: DUKE DRLG  
MUD TYPE: STARCH VISCOSITY: 45  
WEIGHT: 9.8 WATER LOSS (CC): 8.0  
CHLORIDES (P.P.M.): 36000  
JARS - MAKE: WTC SERIAL NUMBER: 419  
DID WELL FLOW? REVERSED OUT?  
DRILL COLLAR LENGTH: 150 FT I.D.: 2.25 IN  
WEIGHT PIPE LENGTH: 280 FT I.D.: 2.7 IN  
DRILL PIPE LENGTH: 2548 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 30 FT TOOL SIZE: 5 1/2 OD IN  
ANCHOR LENGTH: 10 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: INITIAL FLOW PERIOD WEAK 1" BLOW  
DECREASED TO VERY WEAK SURFACE  
BLOW. FINAL FLOW PERIOD NO BLOW.

RECOVERED: 25 FT OF: SLIGHTLY WATERY MUD WITH A FEW OIL SPECKS.  
RECOVERED: FT OF:  
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 9:50 PM TIME STARTED OFF BOTTOM: 11:20 PM  
WELL TEMPERATURE: 102 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 1561 PSI  
INITIAL FLOW PERIOD MIN: 15 (B) 41 PSI TO (C) 41 PSI  
INITIAL CLOSED IN PERIOD MIN: 30 (D) 880 PSI  
FINAL FLOW PERIOD MIN: 15 (E) 44 PSI TO (F) 44 PSI  
FINAL CLOSED IN PERIOD MIN: 30 (G) 866 PSI  
FINAL HYDROSTATIC PRESSURE (H) 1545 PSI

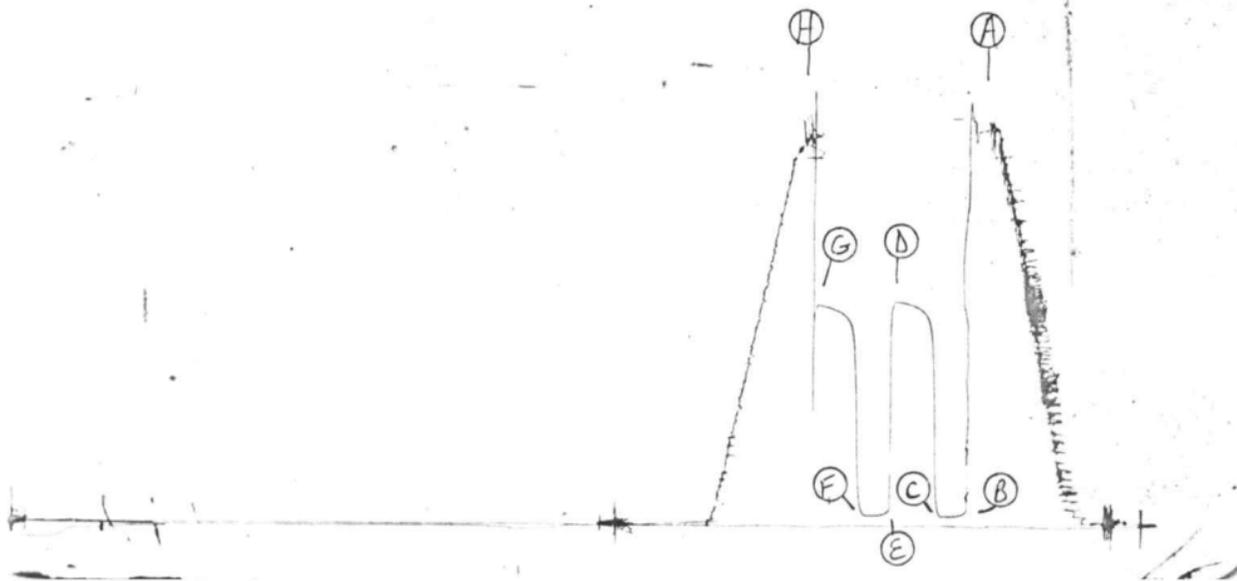


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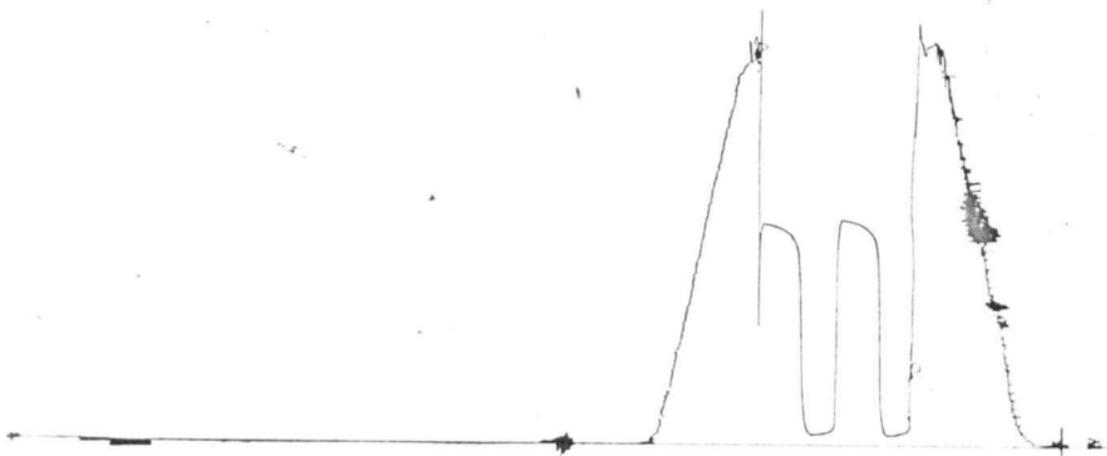
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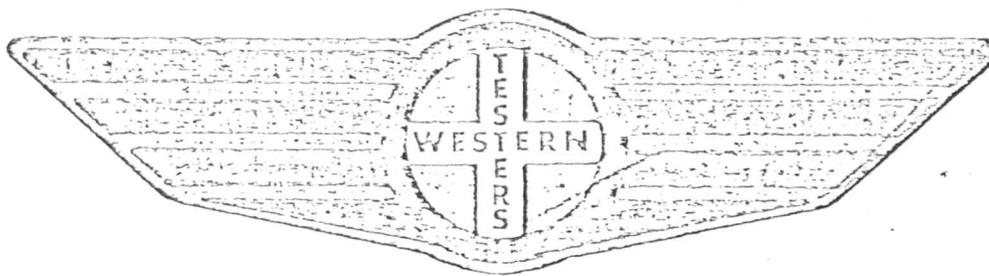
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Company \_\_\_\_\_  
Lease and Well No. \_\_\_\_\_  
Sec. \_\_\_\_\_  
Twp. \_\_\_\_\_  
Rge. \_\_\_\_\_  
Test No. \_\_\_\_\_  
Date \_\_\_\_\_

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 1/27/85  
CUSTOMER: PETROLEUM ENERGY INC.  
WELL: 3 TEST: 2  
ELEVATION (KB): 1727 FORMATION: ARBUCKLE  
SECTION: 23 TOWNSHIP: 18S  
RANGE: 8W COUNTY: RICE STATE: KANSAS  
GAUGE SN #13762 RANGE: 3925 CLOCK: 12

INTERVAL TEST FROM: 3100 FT TO: 3165 FT TOTAL DEPTH: 3165 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 3095 FT SIZE: 6 5/8 IN PAKER DEPTH: 3100 FT SIZE: 6 5/8 IN  
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: DUKE DRLG  
MUD TYPE: STARCH VISCOSITY: 46  
WEIGHT: 9.7 WATER LOSS (CC): 10.0  
CHLORIDES (P.P.M.): 52000  
JARS - MAKE: SERIAL NUMBER:  
DID WELL FLOW? REVERSED OUT?  
DRILL COLLAR LENGTH: 150 FT I.D.: 2.25 IN  
WEIGHT PIPE LENGTH: 280 FT I.D.: 2.7 IN  
DRILL PIPE LENGTH: 2647 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 23 FT TOOL SIZE: 5 1/2 OD IN  
ANCHOR LENGTH: 65 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: INITIAL FLOW PERIOD WEAK 1" BLOW BUILDING  
TO A FAIR 5" BLOW. FINAL FLOW  
PERIOD NO BLOW. FLUSHED TOOL.  
GOOD SURGE; NO HELP.

RECOVERED: 60 FT OF: SLIGHTLY OIL CUT MUD.  
RECOVERED: FT OF: (10% OIL; 90% MUD).  
RECOVERED: 60 FT OF: SLIGHTLY OIL CUT MUD.  
RECOVERED: FT OF: (20% OIL; 80% MUD).  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:

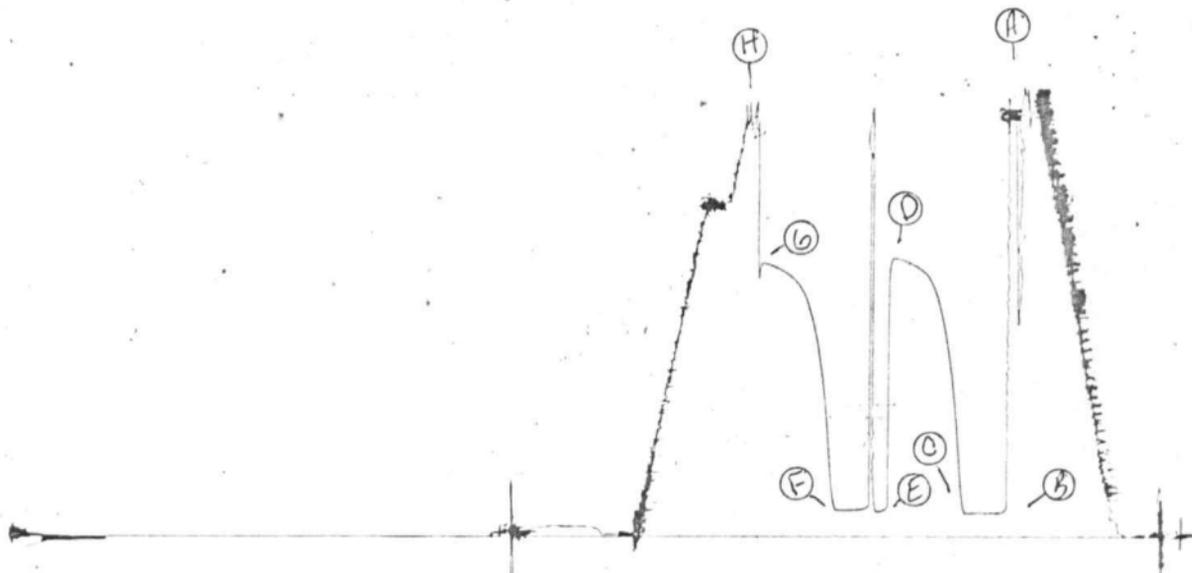
REMARKS: SLID 3 FEET TO BOTTOM. GOOD SHOW  
OF OIL IN TOOL.

TIME SET PACKER(S): 10:30 PM TIME STARTED OFF BOTTOM: 1:00 AM  
WELL TEMPERATURE: 110 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 1646 PSI  
INITIAL FLOW PERIOD MIN: 25 (B) 90 PSI TO (C) 90 PSI  
INITIAL CLOSED IN PERIOD MIN: 42 (D) 1064 PSI  
FINAL FLOW PERIOD MIN: 30 (E) 95 PSI TO (F) 101 PSI  
FINAL CLOSED IN PERIOD MIN: 45 (G) 1046 PSI  
FINAL HYDROSTATIC PRESSURE (H) 1616 PSI



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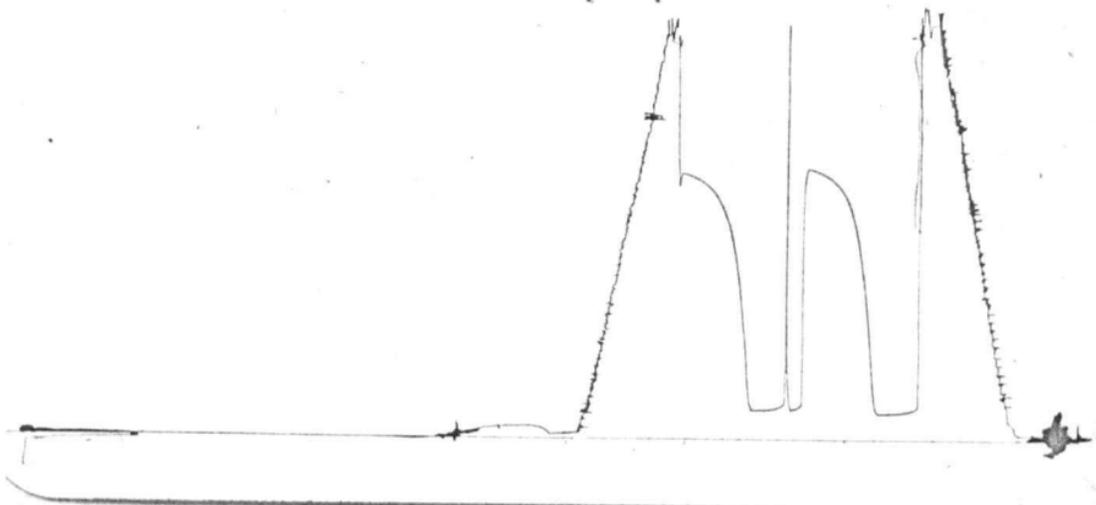
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TKT # 6783

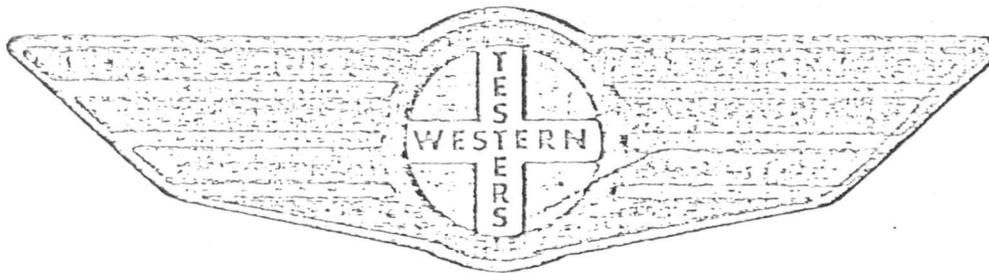
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WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 1/28/85 TICKET #6784  
 CUSTOMER: PETROLEUM ENERGY INC. LEASE: WILLMS  
 WELL: 3 TEST: 3 GEOLOGIST: WREATH  
 ELEVATION (KB): 1727 FORMATION: ARBUCKLE  
 SECTION: 23 TOWNSHIP: 18S  
 RANGE: 8W COUNTY: RICE STATE: KANSAS  
 GAUGE SN #13762 RANGE: 3925 CLOCK: 12

INTERVAL TEST FROM: 3165 FT TO: 3178 FT TOTAL DEPTH: 3178 FT  
 DEPTH OF SELECTIVE ZONE: FT  
 PACKER DEPTH: 3160 FT SIZE: 6 5/8 IN PACKER DEPTH: 3165 FT SIZE: 6 5/8 IN  
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: DUKE DRLG  
 MUD TYPE: STARCH VISCOSITY: 53  
 WEIGHT: 9.5 WATER LOSS (CC): 11.2  
 CHLORIDES (P.P.M.): 52000  
 JARS - MAKE: WTC SERIAL NUMBER: 419  
 DID WELL FLOW? REVERSED OUT?  
 DRILL COLLAR LENGTH: 150 FT I.D.: 2.25 IN  
 WEIGHT PIPE LENGTH: 280 FT I.D.: 2.7 IN  
 DRILL PIPE LENGTH: 2705 FT I.D.: 3.8 IN  
 TEST TOOL LENGTH: 30 FT TOOL SIZE: 5 1/2 OD IN  
 ANCHOR LENGTH: 13 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: INITIAL FLOW PERIOD WEAK 1/4"  
 BLOW. FINAL FLOW PERIOD NO  
 BLOW. FLUSHED TOOL. GOOD  
 SURGE; NO HELP.

RECOVERED: 30 FT OF: SLIGHTLY OIL SPECKED MUD.  
 RECOVERED: FT OF:  
 RECOVERED: FT OF:

REMARKS: TRIP JARS TO COME OUT OF HOLE.

TIME SET PACKER(S): 1:30 PM TIME STARTED OFF BOTTOM: 3:30 PM  
 WELL TEMPERATURE: 107 °F  
 INITIAL HYDROSTATIC PRESSURE: (A) 1708 PSI  
 INITIAL FLOW PERIOD MIN: 30 (B) 34 PSI TO (C) 36 PSI  
 INITIAL CLOSED IN PERIOD MIN: 42 (D) 1048 PSI  
 FINAL FLOW PERIOD MIN: 10 (E) 55 PSI TO (F) 51 PSI  
 FINAL CLOSED IN PERIOD MIN: 27 (G) 1070 PSI  
 FINAL HYDROSTATIC PRESSURE (H) 1669 PSI

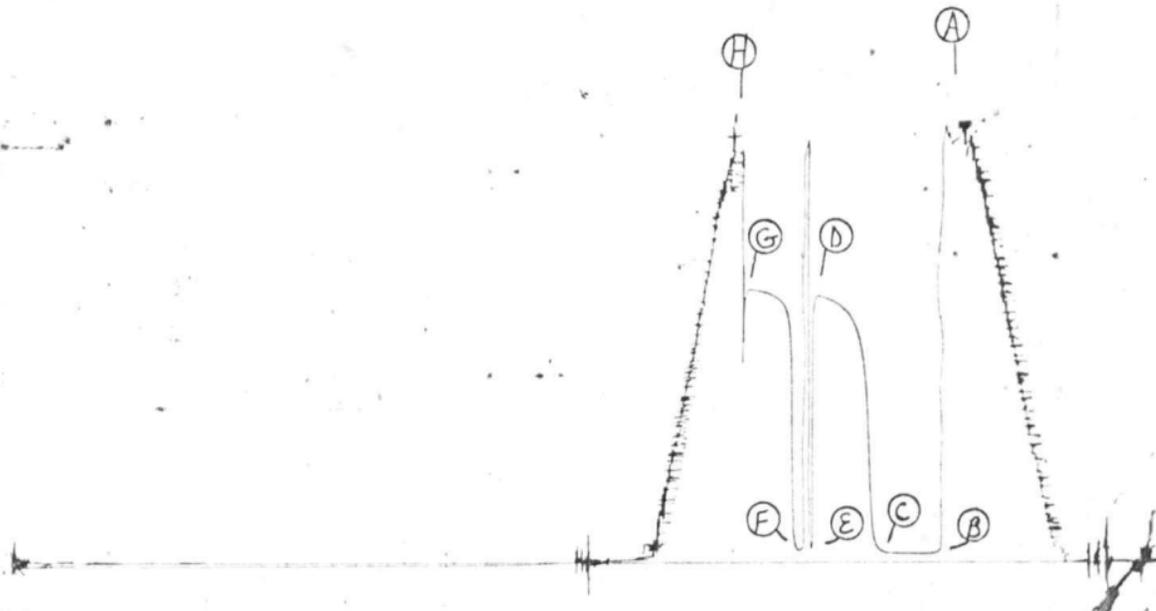


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TKT # 6784

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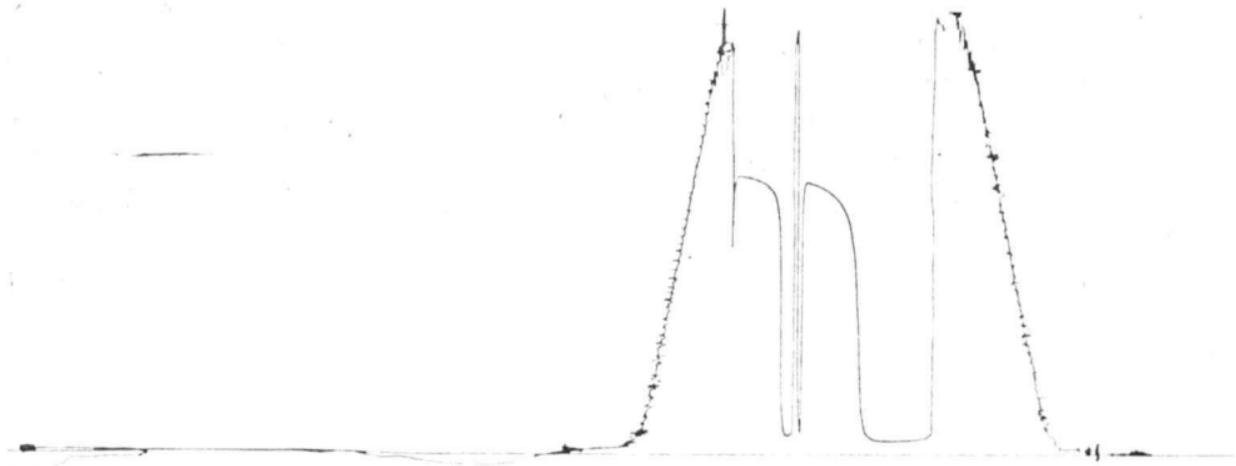


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TKT # 6784

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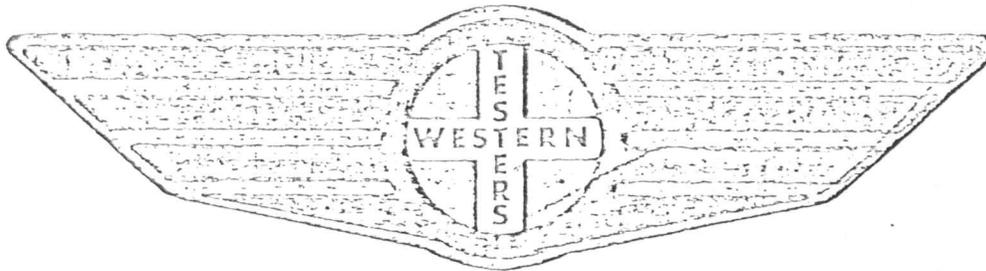
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Home Office:

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WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 1/29/85  
CUSTOMER: PETROLEUM ENERGY INC.  
WELL: 3 TEST: 4  
ELEVATION (KB): 1727 FORMATION: ARBUCKLE  
SECTION: 23 TOWNSHIP: 18S  
RANGE: 8W COUNTY: RICE STATE: KANSAS  
GAUGE SN #13762 RANGE: 3925 CLOCK: 12

INTERVAL TEST FROM: 3178 FT TO: 3227 FT TOTAL DEPTH: 3227 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 3173 FT SIZE: 6 5/8 IN PACKER DEPTH: 3178 FT SIZE: 6 5/8 IN  
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: DUKE DRLG  
MUD TYPE: STARCH VISCOSITY: 53  
WEIGHT: 9.5 WATER LOSS (CC): 11.2  
CHLORIDES (P.P.M.): 49000  
JARS - MAKE: WTC SERIAL NUMBER: 419  
DID WELL FLOW? REVERSED OUT? YES  
DRILL COLLAR LENGTH: 150 FT I.D.: 2.25 IN  
WEIGHT PIPE LENGTH: 280 FT I.D.: 2.7 IN  
DRILL PIPE LENGTH: 2718 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 30 FT TOOL SIZE: 5 1/2 OD IN  
ANCHOR LENGTH: 49 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: INITIAL FLOW PERIOD STRONG BLOW.  
OFF BOTTOM OF BUCKET IN 15 SECONDS.  
FINAL FLOW PERIOD FAIR 3" BLOW.

RECOVERED: 2600 FT OF: SALT WATER. CHLORIDES 18000 PPM.  
RECOVERED: FT OF:  
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 5:55 AM TIME STARTED OFF BOTTOM: 7:55 AM  
WELL TEMPERATURE: 121 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 1722 PSI  
INITIAL FLOW PERIOD MIN: 30 (B) 633 PSI TO (C) 1076 PSI  
INITIAL CLOSED IN PERIOD MIN: 27 (D) 1108 PSI  
FINAL FLOW PERIOD MIN: 30 (E) 1101 PSI TO (F) 1110 PSI  
FINAL CLOSED IN PERIOD MIN: 36 (G) 1112 PSI  
FINAL HYDROSTATIC PRESSURE (H) 1596 PSI

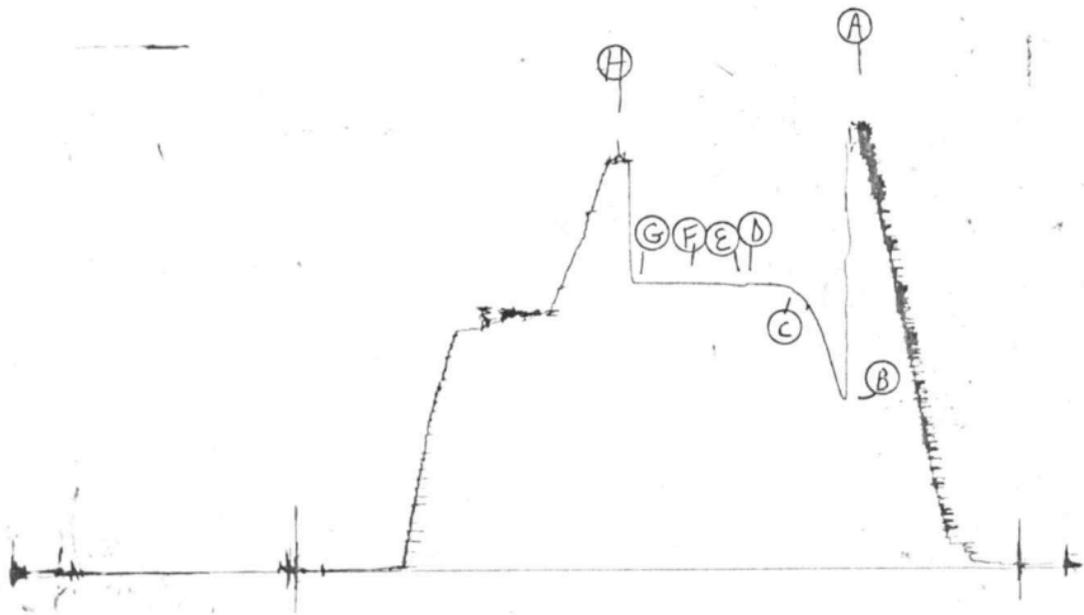


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TKT # 6785

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15154

TKT # 6785

