

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 3/20/84 TICKET #4315
CUSTOMER: GREENWOOD RESOURCES INC. LEASE: YATES
WELL: 16-1 TEST: 1 GEOLOGIST: ROBINSON
ELEVATION (KB): 1804 FORMATION: CHASE
SECTION: 16 TOWNSHIP: 28S
RANGE: 11W COUNTY: PRATT STATE: KANSAS
GAUGE SN #13402 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 1745 FT TO: 1817 FT TOTAL DEPTH: 1817 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 1740 FT SIZE: 6 3/4 IN PACKER DEPTH: 1745 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALLEN DRLG
MUD TYPE: NATIVE;WTR VISCOSITY: 28
WEIGHT: 9.6 WATER LOSS (CC):
CHLORIDES (P.P.M.): 110000
JARS - MAKE: WTC SERIAL NUMBER: 406
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1715 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 30 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 72 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 FH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW TO
FAIR BLOW.
FINAL FLOW PERIOD FAIR BLOW.

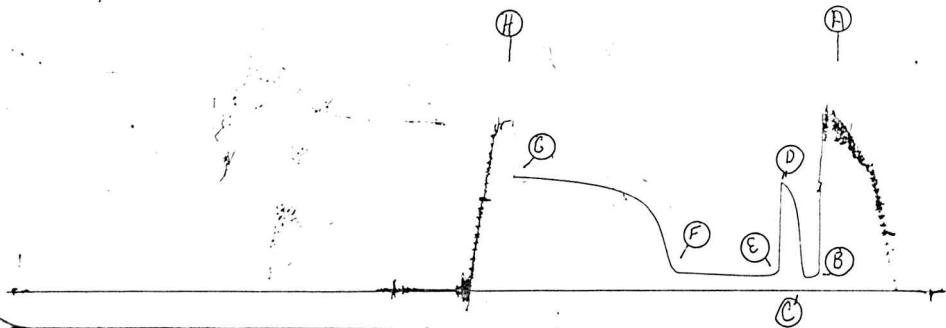
RECOVERED: 90	FT	OF: MUD.
RECOVERED:	FT	OF:
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REMARKS:

TIME SET PACKER(S): 11:05 PM	TIME STARTED OFF BOTTOM: 2:50 AM
WELL TEMPERATURE: 95 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 902 PSI
INITIAL FLOW PERIOD MIN: 10	(B) 83 PSI TO (C) 61 PSI
INITIAL CLOSED IN PERIOD MIN: 18	(D) 536 PSI
FINAL FLOW PERIOD MIN: 75	(E) 70 PSI TO (F) 86 PSI
FINAL CLOSED IN PERIOD MIN: 120	(G) 560 PSI
FINAL HYDROSTATIC PRESSURE	(H) 836 PSI

13402
DST# 1, TKT# 43.15

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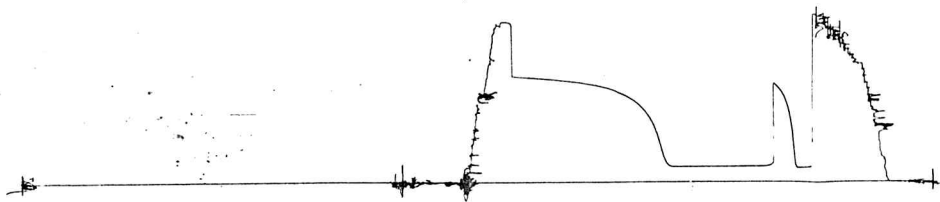


1559 TKT# 4315

DST # 1

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WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 3/22/84
CUSTOMER: GREENWOOD RESOURCES INC.
WELL: 16-1 TEST: 2
ELEVATION (KB): 1804 FORMATION: LANSING
SECTION: 16 TOWNSHIP: 28S
RANGE: 11W COUNTY: PRATT STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 3648 FT TO: 3677 FT TOTAL DEPTH: 3677 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3643 FT SIZE: 6 3/4 IN PACKER DEPTH: 3648 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALLEN DRILLING
MUD TYPE: PREMIX VISCOSITY: 47
WEIGHT: 91 WATER LOSS (CC): 9.5
CHLORIDES (P.P.M.): 22000
JARS - MAKE: W.T.C. SERIAL NUMBER: 409
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3617 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 31 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 29 FT SIZE: 5 1/2 O.D. 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 F.H. IN

BLOW: INITIAL FLOW PERIOD;WEAK TO GOOD BLOW.
FINAL FLOW PERIOD; GOOD DECREASING TO FAIR BLOW.

RECOVERED: 400 FT OF: GAS
RECOVERED: 90 FT OF: OIL CUT GASSY MUD
RECOVERED: FT OF:
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REMARKS:

TIME SET PACKER(S): 1:30 A.M. TIME STARTED OFF BOTTOM: 5:45 A.M.
WELL TEMPERATURE: 117 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1796 PSI
INITIAL FLOW PERIOD MIN: 15 (B) 37 PSI TO (C) 37 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 900 PSI
FINAL FLOW PERIOD MIN: 90 (E) 42 PSI TO (F) 42 PSI
FINAL CLOSED IN PERIOD MIN: 114 (G) 1141 PSI
FINAL HYDROSTATIC PRESSURE (H) 1796 PSI

WESTERN TESTING COMPANY INC.
PRESSURE DATA

DATE: 3/22/84	TICKET #4341
CUSTOMER: GREENWOOD RESOURCES INC.	LEASE: YATES
WELL: 16-1	TEST: 2
ELEVATION (KB): 1804	GEOLOGIST: PETAGNA
SECTION: 16	FORMATION: LANSING
RANGE: 11W	TOWNSHIP: 28S
COUNTY: PRATT	STATE: KANSAS
GAUGE SN #2606	RANGE: 4150
	CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	1796	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	37	PSI
(C)	FIRST FINAL FLOW PRESSURE:	37	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	900	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	42	PSI
(F)	SECOND FINAL FLOW PRESSURE:	42	PSI
(G)	FINAL CLOSED-IN PRESSURE:	1141	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	1796	PSI
	WELL TEMPERATURE:	117	'F
OPEN TOOL: 1:30 A.M.			

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	15 MIN	15 MIN
INITIAL CLOSED-IN PRESSURE:	30 MIN	30 MIN
SECOND FLOW PRESSURE:	90 MIN	90 MIN
FINAL CLOSED-IN PRESSURE:	120 MIN	114 MIN

PRESSURE BREAKDOWN

[illegible]

PRESSURE BREAKDOWN - CONT. TICKET #4341

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
31							90	1109
32							93	1113
33							96	1117
34							99	1121
35							102	1125
36							105	1129
37							108	1133
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Phone (316) 793-7903



P. O. Box 793 - Great Bend, Kansas

Fluid Sample Report

Date 3/23/84 Ticket No. 4341

Company Greenwood Resources

Well Name & No. #16-1 Yates DST No. 2

County Pratt County State Kansas

Sampler No. 1 Test Interval 3648-3677

Pressure in Sampler 0 PSIG BHT 0 OF

Total Volume of Sampler 3000 cc.

Total Volume of Sample: 3000 cc.

Oil: 1000 cc.

Water: 1000 53,000 Chlorides PPM. cc.

Mud: 500 cc.

Gas: 500 cu. ft.

Other:

Resistivity

Water: @ of Chloride Content ppm.

Mud Pit Sample @ of Chloride Content ppm.

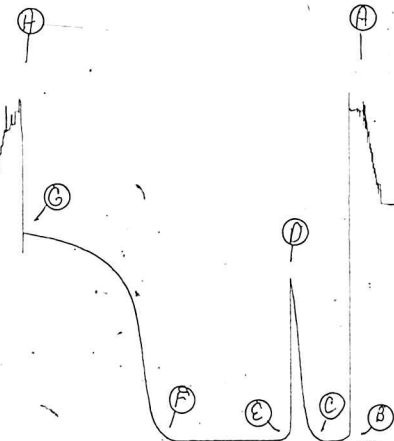
Gas/Oil Ratio Gravity °API @ OF

Where was sample drained

Remarks:

2606 TKT # 4341
Dist # 2 I

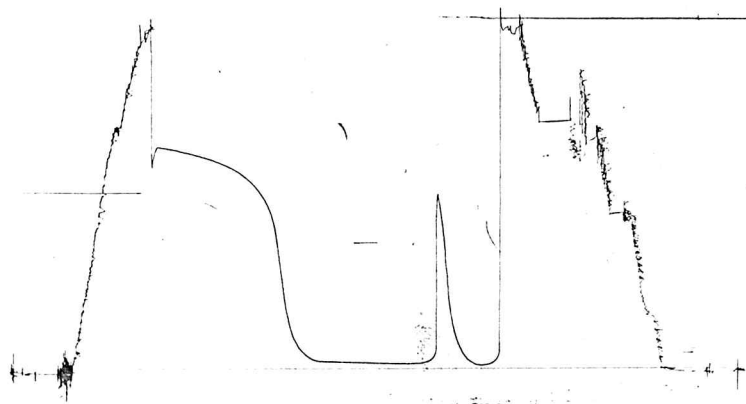
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13267 TKT# 4341

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Dst # 2



WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 3/25/84
CUSTOMER: GREENWOOD RESOURCES INC.
WELL: 16-1 TEST: 3
ELEVATION (KB): 1804 FORMATION: INDIAN CAVE
SECTION: 16 TOWNSHIP: 28S
RANGE: 11W COUNTY: PRATT STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 2506 FT TO: 2573 FT TOTAL DEPTH: 4155 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2501 FT SIZE: 6 3/4 IN PACKER DEPTH: 2506 FT SIZE: 6 3/4 IN
PACKER DEPTH: 2573 FT SIZE: 6 3/4 IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALLEN
MUD TYPE: CHEM PRMX VISCOSITY: 52
WEIGHT: 9.1 WATER LOSS (CC): 9.6
CHLORIDES (P.P.M.): 22000
JARS - MAKE: W.T.C. SERIAL NUMBER: 409
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 121 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2357 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 28 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 67 FT SIZE: 5 1/2 O.D. 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 IN
10 MINUTES. FINAL FLOW PERIOD
STRONG BLOW; NO GAS TO SURFACE.

RECOVERED: 450 FT OF: MUDDY WATER.
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REMARKS:

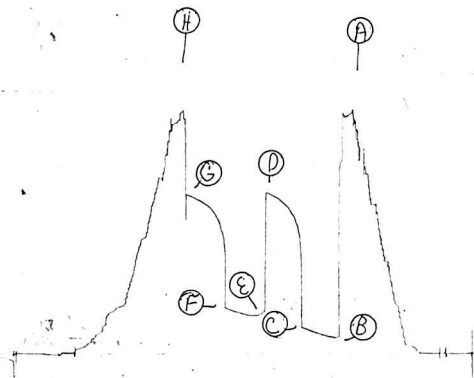
TIME SET PACKER(S): 12:15 P.M. TIME STARTED OFF BOTTOM: 2:15 P.M.
WELL TEMPERATURE: 102 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1252 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 84 PSI TO (C) 138 PSI
INITIAL CLOSED IN PERIOD MIN: 27 (D) 851 PSI
FINAL FLOW PERIOD MIN: 30 (E) 200 PSI TO (F) 239 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 840 PSI
FINAL HYDROSTATIC PRESSURE (H) 1207 PSI

2606 DST #3

TKT #4342

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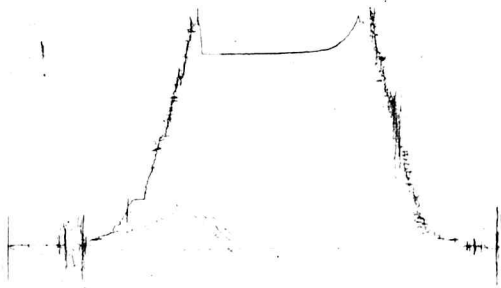
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10119 DST#3 TKT#4342

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Below Straddle



1326Z DST#3

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