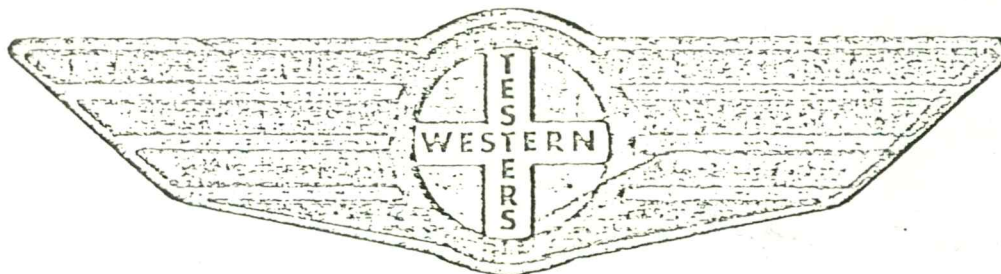


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/18/84
CUSTOMER: CANADAY OIL CORPORATION
WELL: 2 TEST: 1
ELEVATION (KB): 2005 FORMATION: KANSAS CITY
SECTION: 9 TOWNSHIP: 29S
RANGE: 15W COUNTY: PRATT STATE: KS
GAUGE SN #6074 RANGE: 5100 CLOCK: 12

INTERVAL TEST FROM: 4374 FT TO: 4405 FT TOTAL DEPTH: 4405 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4369 FT SIZE: 6 5/8 IN PACKER DEPTH: 4374 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RED TIGER
MUD TYPE: CHEM PRMX VISCOSITY: 46
WEIGHT: 8.9 WATER LOSS (CC): 10.8
CHLORIDES (P.P.M.): 11500
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 1133 FT I.D.: 2.5 IN
DRILL PIPE LENGTH: 3221 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 31 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 GAS TO SURFACE IN 7 MINUTES (SEE CHART)

RECOVERED: 300	FT	OF: CLEAN GASSY OIL
RECOVERED: 180	FT	OF: SLIGHTLY MUDDY OIL
RECOVERED: 180	FT	OF: MUDDY OIL
RECOVERED:	FT	OF: GRAVITY 41% @ 40 DEGREES
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS: TIGHT HOLE!

TIME SET PACKER(S): 1:55 AM
WELL TEMPERATURE: 121 °F
INITIAL HYDROSTATIC PRESSURE:
INITIAL FLOW PERIOD MIN: 15
INITIAL CLOSED IN PERIOD MIN: 45
FINAL FLOW PERIOD MIN: 60
FINAL CLOSED IN PERIOD MIN: 93
FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM: 5:25 AM
(A) 2061 PSI
(B) 245 PSI TO (C) 260 PSI
(D) 1548 PSI
(E) 220 PSI TO (F) 243 PSI
(G) 1530 PSI
(H) 2049 PSI

WESTERN TESTING COMPANY INC.
PRESSURE DATA

DATE: 11/18/84
CUSTOMER: CANADAY OIL CORPORATION
WELL: 2 TEST: 1
ELEVATION (KB): 2005
SECTION: 9
RANGE: 15W COUNTY: PRATT
GAUGE SN #6074 RANGE: 5100

TICKET #7374
LEASE: BRYANT
GEOLOGIST: MARTZ
KANSAS CITY
295
STATE: KS
CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	2061	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	245	PSI
(C)	FIRST FINAL FLOW PRESSURE:	260	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	1548	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	220	PSI
(F)	SECOND FINAL FLOW PRESSURE:	243	PSI
(G)	FINAL CLOSED-IN PRESSURE:	1530	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	2049	PSI
WELL TEMPERATURE:		121	'F
OPEN TOOL: 1:55 AM			

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	15 MIN	15 MIN
INITIAL CLOSED-IN PRESSURE:	45 MIN	45 MIN
SECOND FLOW PRESSURE:	60 MIN	60 MIN
FINAL CLOSED-IN PRESSURE:	90 MIN	93 MIN

PRESSURE BREAKDOWN

[illegible]

WESTERN TESTING COMPANY INC.
GAS FLOW REPORT

DATE: 11/18/84
CUSTOMER: CANADAY
WELL: 2
ELEVATION (KB): 2005
SECTION: 9
RANGE: 15W
GAUGE SN #6074

TEST: 1
COUNTY: PRATT
RANGE: 5100

TICKET #7374
LEASE: BRYANT
GEOLOGIST: MARTZ
FORMATION: KANSAS CITY
TOWNSHIP: 29S
STATE: KS
CLOCK: 12

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

15	MERLA	3/4"	28 PSIG	497000 CFPD
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SECOND FLOW

10	MERLA	3/4"	35 PSIG	581000 CFPD
20	"	"	36 "	594000 " "
30	"	"	37 "	605000 " "
40	"	"	38 "	617000 " "
50	"	"	39 "	628000 " "
60	"	"	40 "	639000 " "

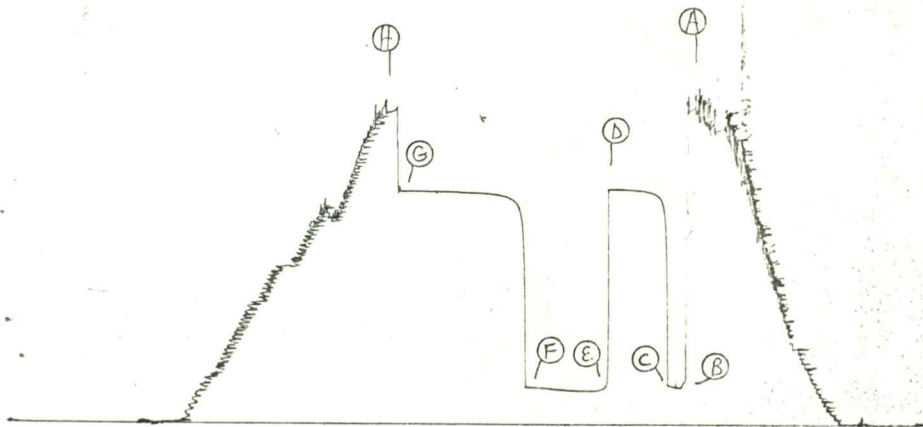
GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED:

12

6074 DST #1

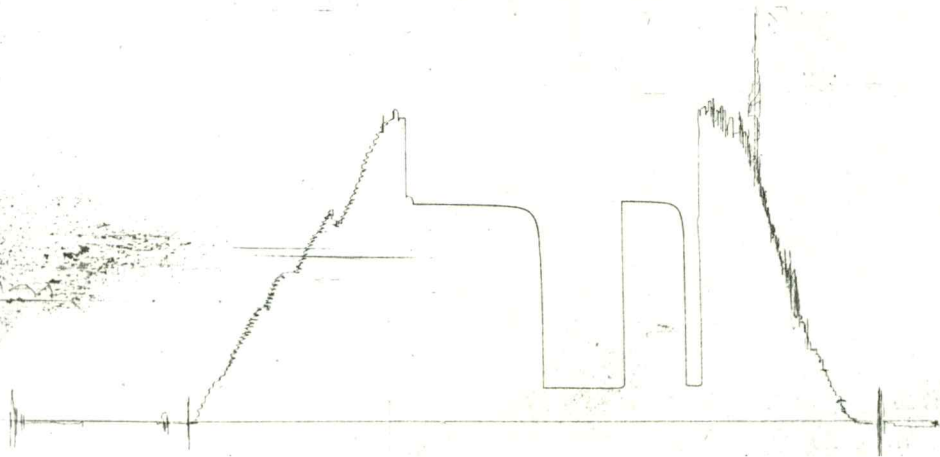
TKT # 7374

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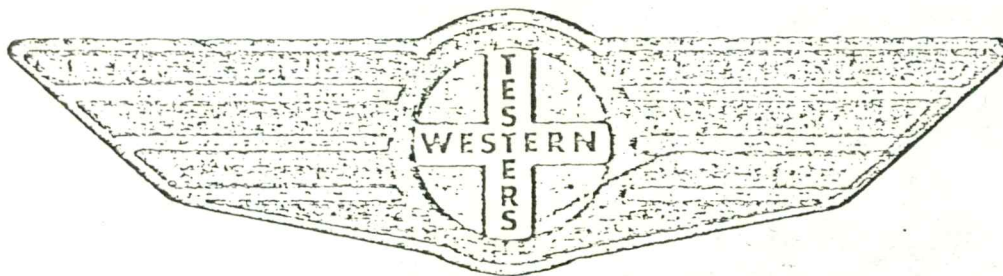


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TKT # 7374



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/18/84
CUSTOMER: CANADAY OIL CORP.
WELL: 2
ELEVATION (KB): 2005
SECTION: 9
RANGE: 15W
GAUGE SN #6074

TEST: 2
FORMATION: MARMATON
TOWNSHIP: 29S
COUNTY: PRATT
RANGE: 5100

TICKET #7375
LEASE: BRYANT
GEOLOGIST: MARTZ
STATE: KS
CLOCK: 12

INTERVAL TEST FROM: 4462 FT TO: 4520 FT TOTAL DEPTH: 4520 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4457 FT SIZE: 6 5/8 IN PAKER DEPTH: 4462 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RED TIGER
MUD TYPE: CHE PRMX
WEIGHT: 9.0
CHLORIDES (P.P.M.): 16000
JARS - MAKE:
DID WELL FLOW? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 1133 FT I.D.: 2.5 IN
DRILL PIPE LENGTH: 3309 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 58 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 FH IN

BLOW: STRONG BLOW GAS TO SURFACE IN 8 MINUTES (SEE CHART)

RECOVERED: 2940	FT	OF: CLEAN GASSY OIL
RECOVERED: 120	FT	OF: OIL CUT WATERY MUD (50% M; 35% W; 10% O; 5% G)
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS: CHLORIDES 15000 P.P.M.
TIGHT HOLE! 1 JOINT OF PIPE IN ANCHOR (32' 26'
PERFS) NOTE: NOTICE NUMBER OF COPIES;
OIL GRAVITY 38%

TIME SET PACKER(S): 10:40 PM
WELL TEMPERATURE: 127 °F

INITIAL HYDROSTATIC PRESSURE:	(A) 2158	PSI
INITIAL FLOW PERIOD	MIN: 15	(B) 153 PSI TO (C) 173 PSI
INITIAL CLOSED IN PERIOD	MIN: 45	(D) 1530 PSI
FINAL FLOW PERIOD	MIN: 55	(E) 268 PSI TO (F) 478 PSI
FINAL CLOSED IN PERIOD	MIN: 99	(G) 1477 PSI
FINAL HYDROSTATIC PRESSURE	(H) 2081	PSI

WESTERN TESTING COMPANY INC.
PRESSURE DATA

TICKET #7375

LEASE: BRYANT

TEST: 2

GEOLOGIST: MARTZ

FORMATION: MARMATON

TOWNSHIP: 29S

COUNTY: PRATT

STATE: KS

RANGE: 5100

CLOCK: 12

PSI

PSI

PSI

PSI

PSI

PSI

PSI

PSI

'F

127

'F

TIME - GIVEN TIME - ACTUAL

15 MIN 15 MIN

45 MIN 45 MIN

60 MIN 55 MIN

90 MIN 99 MIN

PRESSURE BREAKDOWN

[illegible]

WESTERN TESTING COMPANY INC.
GAS FLOW REPORT

DATE: 11/18/84
CUSTOMER: CANADAY OIL CORP.
WELL: 2
ELEVATION (KB): 2005
SECTION: 9
RANGE: 15W
GAUGE SN #6074

TEST: 2
FORMATION: MARMATON
TOWNSHIP: 29S
COUNTY: PRATT
RANGE: 5100

TICKET #7375
LEASE: BRYANT
GEOLOGIST: MARTZ
STATE: KS
CLOCK: 12

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

5	MERLA	1/2"	4 PSIG	68800 CFPD
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SECOND FLOW

10	MERLA	1/4"	36" WTR	10100 CFPD
20	"	"	32" WTR	9500 " "
30	"	"	24" WTR	8220 " "
40	"	"	20" WTR	7510 " "
50	"	"	26" WTR	8560 " "
60	"	"	30" WTR	9200 " "

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

Liquid Production

B.T. Gauge Numbers			Ticket Number	7375
Initial Hydrostatic		PRESSURE	Elevation	ft.
Final Hydrostatic			Indicated Production	1st Flow 3.984 bbls. day
1st Flow	Initial	Time — — — —	Total Flow	29.947 bbls. day
	Final	15	Drill Collar Length	1133 ft.
Initial Closed In Pressure		45	Drill Collar I.D.	2.5 in.
2nd Flow	Initial	— — — —	Drill Pipe Factor	.0142 bbls. ft.
	Final	55	Hole Size	7.875 in.
Final Closed In Pressure		99	Footage Tested	58 (8) ft.
Extrapolated Static Pressure	Initial	1562 - 1218	Mud Weight	9.0 lbs. gal.
	Final	1546 - 1203	Viscosity, Oil or Water	cp
Slope psi/cycle	Initial	343.561	Oil API Gravity	—
	Final	442.598	Water Specific Gravity	—

Remarks: _____

SUMMARY

Gauge
No.
Depth

Product	Equation	INITIAL	FINAL	Units
Production	$Q = \frac{1440 R}{t}$	382.498	784.070	bbls., day.
Transmissability	$\frac{Kh}{\mu} = \frac{162.6 Q}{m}$	180.797	371.690	md. ft. cp.
Indicated Flow Capacity	$Kh = \frac{Kh}{\mu} \mu$	723.189	1486.762	md. ft.
Average Effective Permeability	$K = \frac{Kh}{h}$	90.398	185.845	md.
	$K_i = \frac{Kh}{h_i}$	-----	-----	md.
Damage Ratio	$DR = .183 \frac{P_s - P_f}{m}$	.738	.569	—
Theoretical Potential w/Damage Removed	$Q_1 = Q DR$	DR Less than one	DR Less than one	bbls. day
Approx. Radius of Investigation	$b \approx \sqrt{Kt}$ or $\sqrt{Kt_0}$	282.634	446.769	ft.
	$b_1 \approx \sqrt{K_1 t}$ or $\sqrt{K_1 t_0}$	-----	-----	ft.
Potentiometric Surface *	$Pot. = EI - GD + 2.319 Ps$	-----	-----	ft.

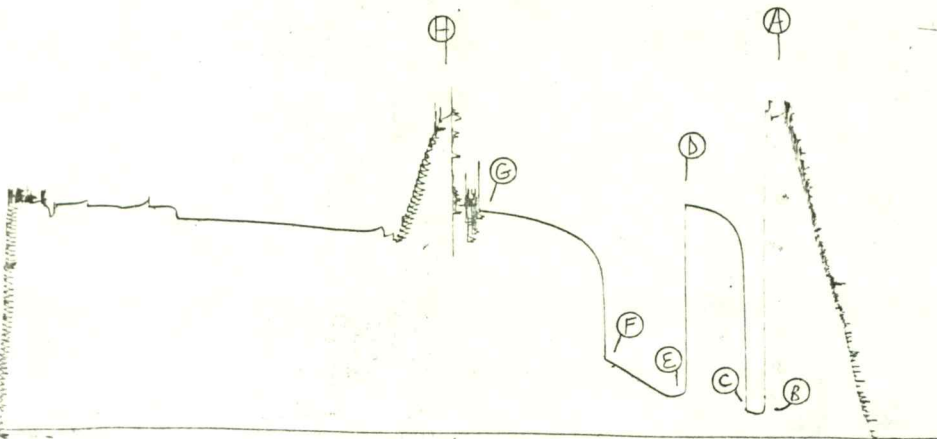
NOTICE:

These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and elevations based thereon, Western Testing Co., Inc. is merely expressing its opinion. You agree that Western Testing Co., Inc. makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Western Testing Co., Inc. shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.

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TKT # 7375

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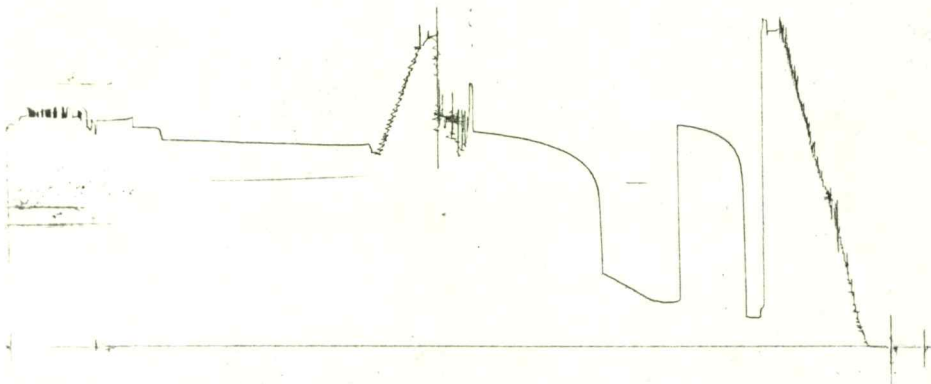


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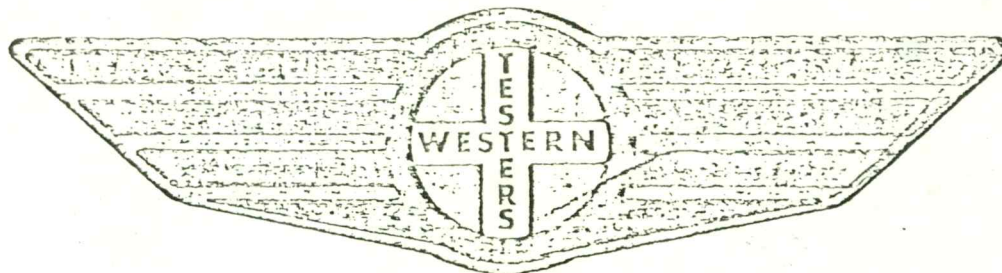
TKT # 7375

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TKT # 7375

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/20/84
CUSTOMER: CANADAY OIL CORP.
WELL: 2 TEST: 3
ELEVATION (KB): 2005 FORMATION: SIMPSON SAND
SECTION: 9 TOWNSHIP: 29S
RANGE: 15W COUNTY: PRATT STATE: KS
GAUGE SN #6074 RANGE: 5100 CLOCK: 12

INTERVAL TEST FROM: 4744 FT TO: 4775 FT TOTAL DEPTH: 4775 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4739 FT SIZE: 6 5/8 IN PACKER DEPTH: 4744 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RED TIGER
MUD TYPE: CHEM PRMX VISCOSITY: 47
WEIGHT: 9.2 WATER LOSS (CC): 14.0
CHLORIDES (P.P.M.): 20000
JARS - MAKE: WTC SERIAL NUMBER: 421
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 1133 FT I.D.: 2.5 IN
DRILL PIPE LENGTH: 3583 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 28 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 31 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 FH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW SLOWLY BUILDING
FINAL FLOW PERIOD WEAK BLOW SLOWLY BUILDING

RECOVERED: 125 FT OF: MUDDY WATER
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: CHLORIDES 70000 P.P.M.
TIGHT HOLE! WAITED 15 EXTRA MINUTES ON FINAL
SHUT-IN; RIG CREW UNLOADED PIPE TRUCKS

TIME SET PACKER(S): 11:15 AM TIME STARTED OFF BOTTOM: 3:15 PM
WELL TEMPERATURE: 133 'F
INITIAL HYDROSTATIC PRESSURE: (A) 2302 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 41 PSI TO (C) 50 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1655 PSI
FINAL FLOW PERIOD MIN: 65 (E) 66 PSI TO (F) 84 PSI
FINAL CLOSED IN PERIOD MIN: 102 (G) 1646 PSI
FINAL HYDROSTATIC PRESSURE (H) 2263 PSI

WESTERN TESTING COMPANY INC.
PRESSURE DATA

DATE: 11/20/84

CUSTOMER: CANADAY OIL CORP.

TEST: 3

TICKET #7401

LEASE: BRYANT

GEOLOGIST: MARTZ

FORMATION: SIMPSON SAND

TOWNSHIP: 29S

COUNTY: PRATT

STATE: KS

RANGE: 5100

CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 2302 PSI

(B) FIRST INITIAL FLOW PRESSURE: 41 PSI

(C) FIRST FINAL FLOW PRESSURE: 50 PSI

(D) INITIAL CLOSED-IN PRESSURE: 1655 PSI

(E) SECOND INITIAL FLOW PRESSURE: 66 PSI

(F) SECOND FINAL FLOW PRESSURE: 84 PSI

(G) FINAL CLOSED-IN PRESSURE: 1646 PSI

(H) FINAL HYDROSTATIC PRESSURE: 2263 PSI

WELL TEMPERATURE: 133 °F

OPEN TOOL: 11:15 AM

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	60 MIN
SECOND FLOW PRESSURE:	60 MIN	65 MIN
FINAL CLOSED-IN PRESSURE:	90 MIN	102 MIN

PRESSURE BREAKDOWN

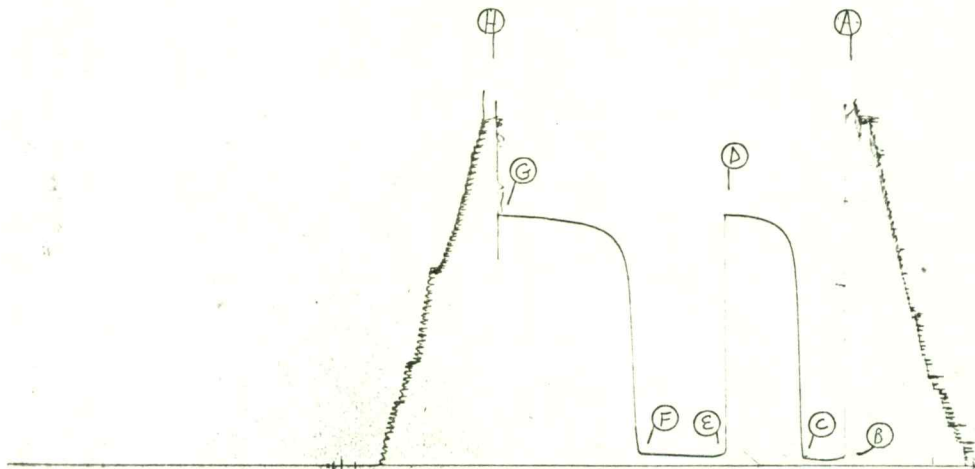
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PRESSURE BREAKDOWN - CONT. . TICKET #7401

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
31							90	1642
32							93	1643
33							96	1644
34							99	1645
35							102	1646
36								
37								
38								
39								
40								
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