

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 10/6/83
CUSTOMER: GEAR PETROLEUM CO. INC.
WELL: 1-32 TEST: 1
ELEVATION (KB): 1905
SECTION: 32
RANGE: 16W
GAUGE SN #13402

TICKET #1873
LEASE: LIBRARY
GEOLOGIST: E. LOUIS
FORMATION: MISSISSIPPI
TOWNSHIP: 29S
COUNTY: KIOWA
STATE: KANSAS
RANGE: 4025
CLOCK: 12

INTERVAL TEST FROM: 4565 FT TO: 4592 FT TOTAL DEPTH: 4592 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4560 FT SIZE: 6 3/4 IN PACKER DEPTH: 4565 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RED TIGER #6
MUD TYPE: CHEMICAL VISCOSITY: 46
WEIGHT: 9.5 WATER LOSS (CC): 14.4
CHLORIDES (P.P.M.): 16000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4545 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 27 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 X.H. IN

BLOW:

RECOVERED: FT OF:
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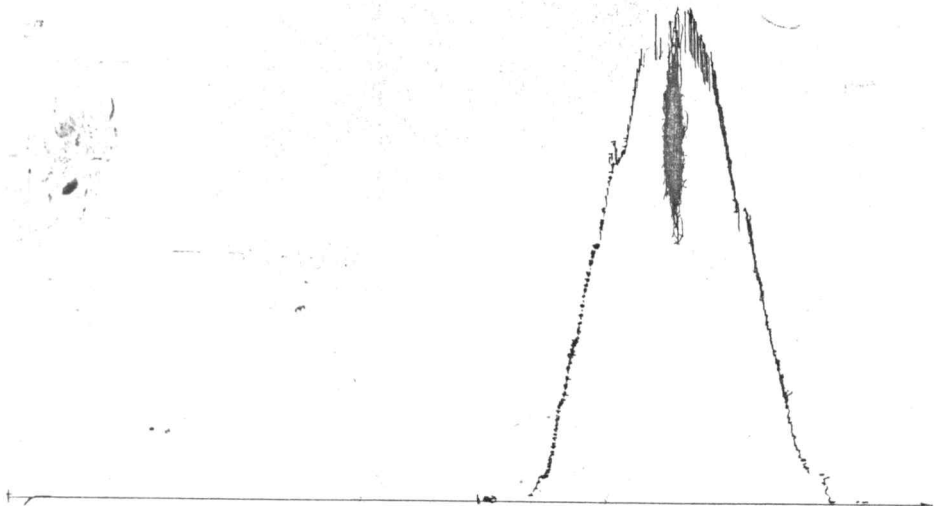
REMARKS: PACKER SEAT FAILURE

TIME SET PACKER(S):
WELL TEMPERATURE: 0 °F
INITIAL HYDROSTATIC PRESSURE: (A) PSI
INITIAL FLOW PERIOD MIN: 0 (B) 0 PSI TO (C) 0 PSI
INITIAL CLOSED IN PERIOD MIN: 0 (D) 0 PSI
FINAL FLOW PERIOD MIN: 0 (E) 0 PSI TO (F) 0 PSI
FINAL CLOSED IN PERIOD MIN: 0 (G) 0 PSI
FINAL HYDROSTATIC PRESSURE (H) PSI

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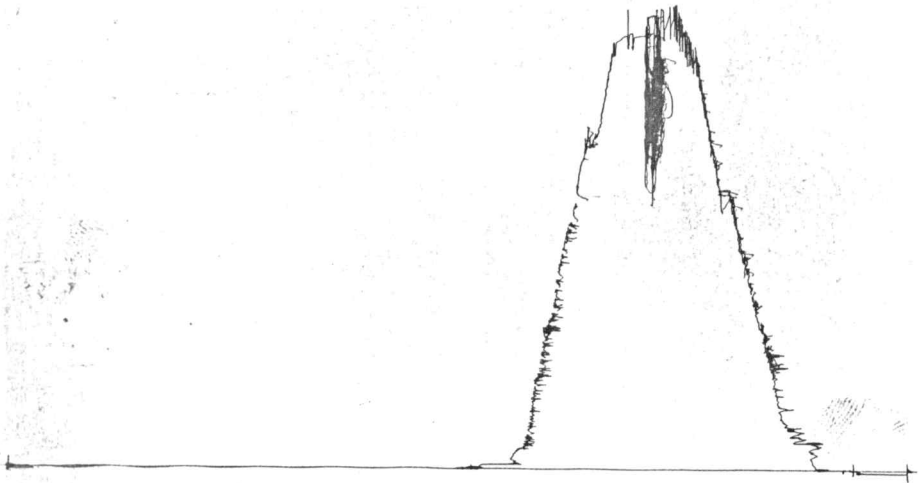
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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 10/6/83
CUSTOMER: GEAR PETROLEUM CO. INC.
WELL: 1-32
ELEVATION (KB): 1905
SECTION: 32
RANGE: 16W
GAUGE SN #13402

TEST: 2
FORMATION: MISSISSIPPI
TOWNSHIP: 29S
COUNTY: KIOWA
RANGE: 4025

TICKET #1874
LEASE: LIBRARY
GEOLOGIST: E. LOUIS
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4531 FT TO: 4592 FT TOTAL DEPTH: 4592 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4526 FT SIZE: 6 3/4 IN PACKER DEPTH: 4531 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RED TIGER #6
MUD TYPE: CHEMICAL VISCOSITY: 46
WEIGHT: 9.5 WATER LOSS (CC): 14.4
CHLORIDES (P.P.M.): 16000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4511 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 61 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 X.H. IN

BLOW: STRONG GAS TO SURFACE IN 9 MINS.
SEE GAS FLOW REPORT.

RECOVERED: 3100 FT OF: GASSY OIL GRAVITY 43
RECOVERED: FT OF:
RECOVERED: FT OF:
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REMARKS:

TIME SET PACKER(S): 12:00 NOON
WELL TEMPERATURE: 125 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2399 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 494 PSI TO (C) 607 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1265 PSI
FINAL FLOW PERIOD MIN: 45 (E) 719 PSI TO (F) 891 PSI
FINAL CLOSED IN PERIOD MIN: 90 (G) 1145 PSI
FINAL HYDROSTATIC PRESSURE (H) 2318 PSI

TIME STARTED OFF BOTTOM: 3:45 P.M.

WESTERN TESTING CO., INC.

TICKET #1874

LEASE: LIBRARY

TEST: 2

GEOLOGIST: E. LOUIS

FORMATION: MISSISSIPPI

TOWNSHIP: 29S

COUNTY: KIOWA

STATE: KANSAS

RANGE: 4025

CLOCK: 12

(B) FIRST INITIAL FLOW PRESSURE: 494 PSI

(C) FIRST FINAL FLOW PRESSURE: 607 PSI

(D) INITIAL CLOSED-IN PRESSURE: 1265 PSI

(E) SECOND INITIAL FLOW PRESSURE: 719 PSI

(F) SECOND FINAL FLOW PRESSURE: 891 PSI

(G) FINAL CLOSED-IN PRESSURE: 1145 PSI

(H) FINAL HYDROSTATIC PRESSURE: 2318 PSI

WELL TEMPERATURE: 125 'F

OPEN TOOL: 12:00 NOON

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	60 MIN
SECOND FLOW PRESSURE:	45 MIN	45 MIN
FINAL CLOSED-IN PRESSURE:	90 MIN	90 MIN

PRESSURE BREAKDOWN

[illegible]

PRESSURE BREAKDOWN - CONT. TICKET #1874

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
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WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 10/6/83
CUSTOMER: GEAR PETROLEUM CO. INC.
WELL: 1-32
ELEVATION (KB): 1905
SECTION: 32
RANGE: 16W
GAUGE SN #13402

TEST: 2
FORMATION: MISSISSIPPI
TOWNSHIP: 29S
COUNTY: KIDWA
RANGE: 4025

TICKET #1874
LEASE: LIBRARY
GEOLOGIST: E. LOUIS
STATE: KANSAS
CLOCK: 12

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

9				GAS TO SURFACE
5	MERLA	1/2	8" WTR	17200 CFPD
10		1/2	6" WTR	15400 CFPD
15		1/2	6" WTR	15400 CFPD
20		1/2	16" WTR	25100 CFPD

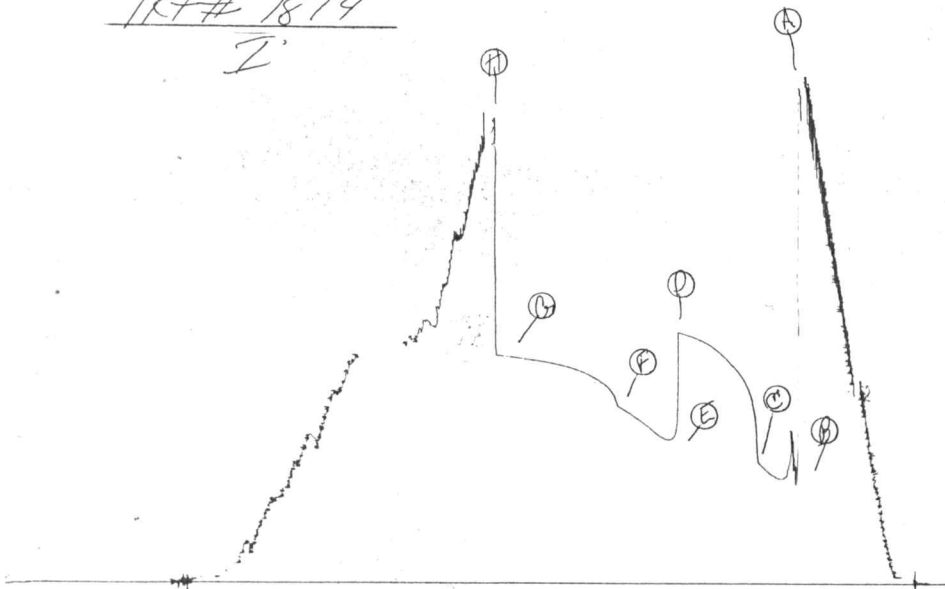
SECOND FLOW

5	MERLA	1/2	1 PSIG	33900 CFPD
10		1/2	2 PSIG	47700 CFPD
15		1/2	1 PSIG	33900 CFPD
20		1/2	1 PSIG	33900 CFPD
25		1/2	1 PSIG	33900 CFPD
30		1/2	1.5 PSIG	41000 CFPD
35		1/2	1 PSIG	33900 CFPD
40		1/2	1 PSIG	33900 CFPD
45		1/2	1 PSIG	33900 CFPD

GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED: 10/6/83

13402
DST #2

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 10/8/83
CUSTOMER: GEAR PETROLEUM CO. INC.
WELL: LIBRARY TEST: 3
ELEVATION (KB): 1905 FORMATION: MISSISSIPPI
SECTION: 32 TOWNSHIP: 29S
RANGE: 16W COUNTY: KIOWA STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 4592 FT TO: 4601 FT TOTAL DEPTH: 4610 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4587 FT SIZE: 6 3/4 IN PACKER DEPTH: 4592 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RED TIGER
MUD TYPE: DRISPAC VISCOSITY: 48
WEIGHT: 9.1 WATER LOSS (CC): 13.6
CHLORIDES (P.P.M.): 17000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4581 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 9 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: STRONG BLOW THROUGHOUT TEST.
GAS TO SURFACE IN 15 MINUTES ON INITIAL FLOW.
SEE ATTACHED GAS SHEET.

RECOVERED: 120 FT OF: GAS & OIL CUT MUD
RECOVERED: 1000 FT OF: GASSY OIL 38 GRAVITY
RECOVERED: FT OF:
RECOVERED: FT OF:
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RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 6:20 AM TIME STARTED OFF BOTTOM: 10:05 AM
WELL TEMPERATURE: 125 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2320 PSI
INITIAL FLOW PERIOD MIN: 25 (B) 140 PSI TO (C) 156 PSI
INITIAL CLOSED IN PERIOD MIN: 57 (D) 1400 PSI
FINAL FLOW PERIOD MIN: 50 (E) 202 PSI TO (F) 278 PSI
FINAL CLOSED IN PERIOD MIN: 90 (G) 1324 PSI
FINAL HYDROSTATIC PRESSURE (H) 2302 PSI

WESTERN TESTING CO., INC.

DATE: 10/8/83	TICKET #1848
CUSTOMER: GEAR PETROLEUM CO. INC.	LEASE: 1-32
WELL: LIBRARY	GEOLOGIST: LEBLANC
TEST: 3	
ELEVATION (KB): 1905	FORMATION: MISSISSIPPI
SECTION: 32	TOWNSHIP: 29S
RANGE: 16W	COUNTY: KIDWA
STATE: KANSAS	
GAUGE SN #2606	RANGE: 4150
CLOCK: 12	

(A)	INITIAL HYDROSTATIC PRESSURE:	2320	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	140	PSI
(C)	FIRST FINAL FLOW PRESSURE:	156	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	1400	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	202	PSI
(F)	SECOND FINAL FLOW PRESSURE:	278	PSI
(G)	FINAL CLOSED-IN PRESSURE:	1324	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	2302	PSI
WELL TEMPERATURE:		125	'F
OPEN TOOL : 6:20 AM			

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	25 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	57 MIN
SECOND FLOW PRESSURE:	45 MIN	50 MIN
FINAL CLOSED-IN PRESSURE:	90 MIN	90 MIN

PRESSURE BREAKDOWN

[illegible]

	FIRST FLOW	INITIAL SHUT-IN	SECOND FLOW	FINAL SHUT-IN
PT	MIN PRESSURE	MIN PRESSURE	MIN PRESSURE	MIN PRESSURE
31				90 1324

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GAS FLOW REPORT

DATE: 10/8/83
CUSTOMER: GEAR PETROLEUM CO. INC.
WELL: LIBRARY TEST: 3
ELEVATION (KB): 1905 FORMATION: MISSISSIPPI
SECTION: 32 TOWNSHIP: 29S
RANGE: 16W COUNTY: KIOWA STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

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

15				GAS TO SURFACE
20	MERLA	3/4	8" WTR	40000 CFPD
25		3/4	8" WTR	40000 CFPD
30		3/4	8" WTR	40000 CFPD

SECOND FLOW

5	MERLA	3/4	3" WTR	24500 CFPD
10		3/4	3" WTR	24500 CFPD
15		3/4	3" WTR	24500 CFPD
20		3/4	3" WTR	24500 CFPD
25		3/4	2" WTR	20000 CFPD
30		3/4	2" WTR	20000 CFPD
35		3/4	2" WTR	20000 CFPD
40		3/4	2" WTR	20000 CFPD
45		3/4	2" WTR	20000 CFPD

GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED: 10/8/83

2606 DST #3

TKT # 1848

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(H)

(A)

(G)

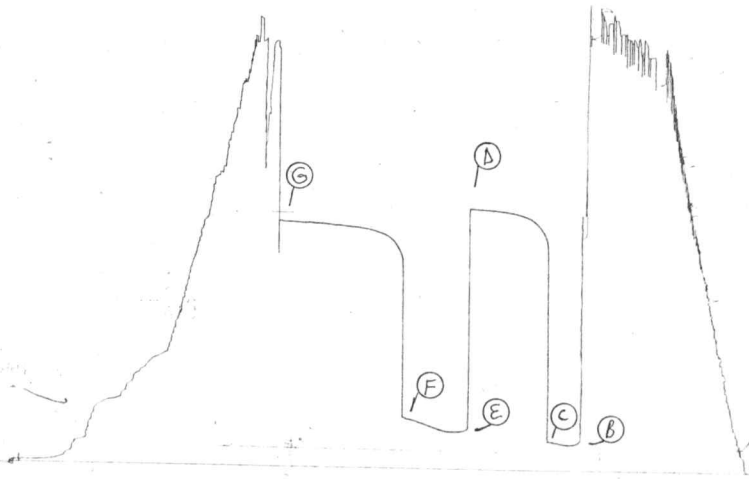
(D)

(F)

(E)

(C)

(B)



WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 10/8/83 TICKET #1849
CUSTOMER: GEAR PETROLEUM CO. INC. LEASE: LIBRARY
WELL: 1-32 TEST: 4 GEOLOGIST: LEBLANC
ELEVATION (KB): 1915 FORMATION: MISSISSIPPI
SECTION: 32 TOWNSHIP: 29S
RANGE: 16W COUNTY: KIOWA STATE: KANSAS
GAUGE SN #13267 RANGE: 4050 CLOCK: 12

INTERVAL TEST FROM: 4592 FT TO: 4608 FT TOTAL DEPTH: 4608 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4587 FT SIZE: 6 3/4 IN PACKER DEPTH: 4592 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RED TIGER
MUD TYPE: PREMIX VISCOSITY: 46
WEIGHT: 9.4 WATER LOSS (CC): 14.4
CHLORIDES (P.P.M.): 16000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4565 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 16 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 STRONG BLOW.
GAS TO SURFACE IN 5 MINUTES ON FINAL
FLOW PERIOD.
SEE ATTACHED GAS SHEET.

RECOVERED: 80 FT OF: FREE OIL (GASSY)
RECOVERED: 60 FT OF: FROGGY OIL
RECOVERED: 60 FT OF: GAS & OIL CUT MUD
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: READ OUTSIDE RECORDER.

TIME SET PACKER(S): 12:30 AM TIME STARTED OFF BOTTOM: 4:15 AM
WELL TEMPERATURE: 122 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2348 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 105 PSI TO (C) 115 PSI
INITIAL CLOSED IN PERIOD MIN: 54 (D) 1432 PSI
FINAL FLOW PERIOD MIN: 45 (E) 96 PSI TO (F) 112 PSI
FINAL CLOSED IN PERIOD MIN: 90 (G) 1413 PSI
FINAL HYDROSTATIC PRESSURE (H) 2278 PSI

WESTERN TESTING CO. INC.

TICKET #1849

LEASE: LIBRARY

TEST: 4

GEOLOGIST: LEBLANC

FORMATION: MISSISSIPPI

TOWNSHIP: 29S

RANGE: 16W

COUNTY: KIOWA

STATE: KANSAS

GAUGE SN #13267

RANGE: 4050

CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 2348 PSI

(B) FIRST INITIAL FLOW PRESSURE: 105 PSI

(C) FIRST FINAL FLOW PRESSURE: 115 PSI

(D) INITIAL CLOSED-IN PRESSURE: 1432 PSI

(E) SECOND INITIAL FLOW PRESSURE: 96 PSI

(F) SECOND FINAL FLOW PRESSURE: 112 PSI

(G) FINAL CLOSED-IN PRESSURE: 1413 PSI

(H) FINAL HYDROSTATIC PRESSURE: 2278 PSI

WELL TEMPERATURE: 122 °F

OPEN TOOL: 12:30 AM

TIME - GIVEN TIME - ACTUAL

FIRST FLOW PRESSURE: 30 MIN 30 MIN

INITIAL CLOSED-IN PRESSURE: 60 MIN 54 MIN

SECOND FLOW PRESSURE: 45 MIN 45 MIN

FINAL CLOSED-IN PRESSURE: 90 MIN 90 MIN

PRESSURE BREAKDOWN

[illegible]

WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 10/8/83
CUSTOMER: GEAR PETROLEUM CO. INC.
WELL: 1-32
ELEVATION (KB): 1915
SECTION: 32
RANGE: 16W
GAUGE SN #13267

TEST: 4
FORMATION: MISSISSIPPI
TOWNSHIP: 29S
COUNTY: KIOWA
RANGE: 4050

TICKET #1849
LEASE: LIBRARY
GEOLOGIST: LEBLANC
STATE: KANSAS
CLOCK: 12

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

SECOND FLOW

				GAS TO SURFACE
5				
10	MERLA	1/2	7" WTR	16700 CFPD
15		1/2	7" WTR	16700 CFPD
20		1/2	5" WTR	14100 CFPD
25		1/2	5" WTR	14100 CFPD
30		1/2	4" WTR	12500 CFPD
35		1/2	5" WTR	14100 CFPD
40		1/2	5" WTR	14100 CFPD
45		1/2	5" WTR	14100 CFPD

GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED: 10/8/83

TKT # 1849

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