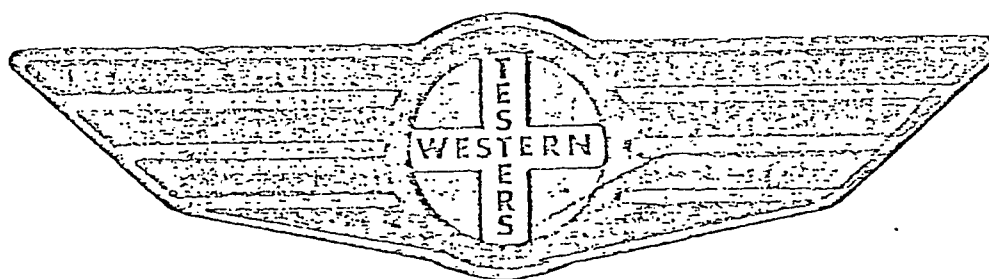


FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company PICKRELL DRILLING COMPANY Lease and Well No. #2 "A" ALBRIGHT Sec. 4 Twp. 31S Rge. 7W Test No. 1 Date 11/27/8

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/27/84
CUSTOMER: PICKRELL DRILLING COMPANY
WELL: 2 TEST: 1
ELEVATION (KB): 1610 FORMATION: KANSAS CITY-HERTHA
SECTION: 4 TOWNSHIP: 31S
RANGE: 7W COUNTY: HARPER STATE: KANSAS
GAUGE SN #13402 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 3996 FT TO: 4016 FT TOTAL DEPTH: 4016 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3991 FT SIZE: 6 3/4 IN PACKER DEPTH: 3996 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL DRLG
MUD TYPE: CHEMICAL VISCOSITY: 50
WEIGHT: 9.4 WATER LOSS (CC): 12.8
CHLORIDES (P.P.M.): 19000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3796 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 20 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.

RECOVERED: 900 FT OF: GAS ABOVE FLUID.
RECOVERED: 60 FT OF: SLIGHTLY OIL CUT MUD.
RECOVERED: FT OF: (60% MUD; 20% WATER; 15% OIL; 5% GAS).
RECOVERED: 420 FT OF: WATER (CHLORIDES 88000 PPM).
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 6:20 PM TIME STARTED OFF BOTTOM: 10:50 PM
WELL TEMPERATURE: 115 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1988 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 76 PSI TO (C) 124 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (C) 1492 PSI
FINAL FLOW PERIOD MIN: 90 (E) 159 PSI TO (F) 257 PSI
FINAL CLOSED IN PERIOD MIN: 96 (G) 1464 PSI
FINAL HYDROSTATIC PRESSURE (H) 1932 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 11/27/84

CUSTOMER: PICKRELL DRILLING COMPANY

TEST: 1

ELEVATION (KB): 1610

FORMATION: KANSAS CITY-HERTHA

COUNTY: HARPER

RANGE: 4025

TICKET #7337

LEASE: 1 "L" ALBRIGHT

GEOLOGIST: KLAVER

KANSAS CITY-HERTHA

315

STATE: KANSAS

CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 1988 PSI

(B) FIRST INITIAL FLOW PRESSURE: 76 PSI

(C) FIRST FINAL FLOW PRESSURE: 124 PSI

(D) INITIAL CLOSED-IN PRESSURE: 1492 PSI

(E) SECOND INITIAL FLOW PRESSURE: 159 PSI

(F) SECOND FINAL FLOW PRESSURE: 257 PSI

(G) FINAL CLOSED-IN PRESSURE: 1464 PSI

(H) FINAL HYDROSTATIC PRESSURE: 1932 PSI

WELL TEMPERATURE: 115 'F

OPEN TOOL: 6:20 PM

TIME - GIVEN TIME - ACTUAL

FIRST FLOW PRESSURE: 30 MIN 30 MIN

INITIAL CLOSED-IN PRESSURE: 60 MIN 60 MIN

SECOND FLOW PRESSURE: 90 MIN 90 MIN

FINAL CLOSED-IN PRESSURE: 90 MIN 96 MIN

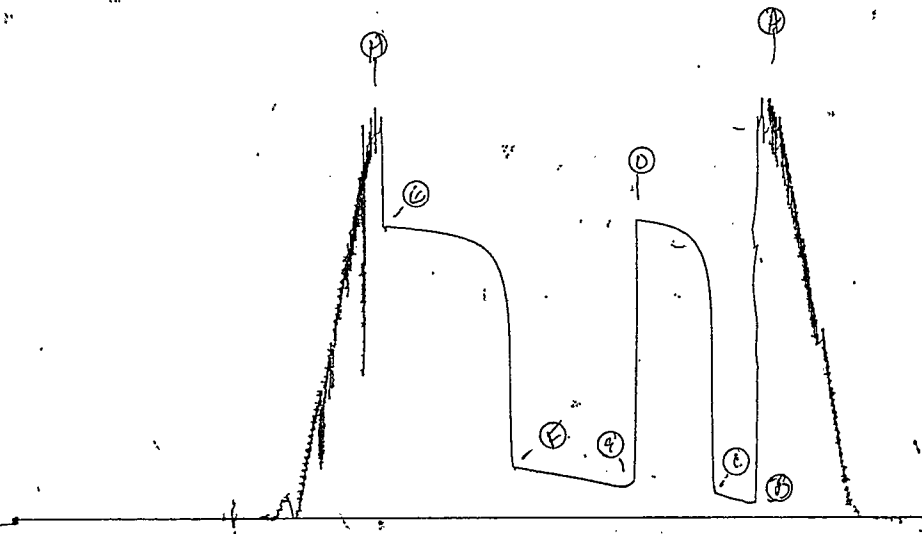
PRESSURE BREAKDOWN

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13402
DST#1

TK4 # 7337

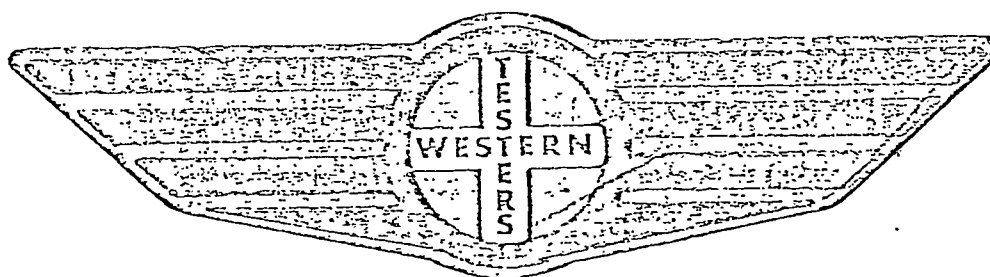
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/29/84
CUSTOMER: PICKRELL DRILLING COMPANY
WELL: 2 TEST: 2
ELEVATION (KB): 1610 FORMATION: MISSISSIPPI
SECTION: 4 TOWNSHIP: 31S
RANGE: 7W COUNTY: HARPER STATE: KANSAS
GAUGE SN #13402 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 4350 FT TO: 4359 FT TOTAL DEPTH: 4359 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4345 FT SIZE: 6 3/4 IN PACKER DEPTH: 4350 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL DRLG
MUD TYPE: CHEMICAL VISCOSITY: 40
WEIGHT: 9.2 WATER LOSS (CC): 14.8
CHLORIDES (P.P.M.): 18000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4150 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 XH IN

BLOW: STRONG BLOW THROUGHOUT TEST. GAS
TO SURFACE IN 12 MINUTES. SEE
ATTACHED SHEET FOR GAS MEASUREMENTS.

RECOVERED: 120 FT OF: SLIGHTLY OIL CUT MUD.
RECOVERED: FT OF: (75% MUD; 10% WATER; 10% OIL; 5% GAS).
RECOVERED: 60 FT OF: HEAVY OIL CUT MUD.
RECOVERED: FT OF: (30% MUD; 10% WATER; 30% OIL; 30% GAS).
RECOVERED: 60 FT OF: SLIGHTLY OIL CUT WATER.
RECOVERED: FT OF: (90% WATER; 3% OIL; 7% GAS).
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 6:00 AM TIME STARTED OFF BOTTOM: 10:30 AM
WELL TEMPERATURE: 120 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2233 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 53 PSI TO (C) 54 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1406 PSI
FINAL FLOW PERIOD MIN: 90 (E) 61 PSI TO (F) 75 PSI
FINAL CLOSED IN PERIOD MIN: 93 (G) 1363 PSI
FINAL HYDROSTATIC PRESSURE (H) 2137 PSI

54

TICKET #7338
LEASE: "L" ALBRIGHT
GEOLOGIST: KLAVER
MISSISSIPPI
31S
STATE: KANSAS
CLOCK: 12

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TIME - GIVEN	TIME - ACTUAL
30 MIN	30 MIN
60 MIN	60 MIN
90 MIN	90 MIN
90 MIN	93 MIN

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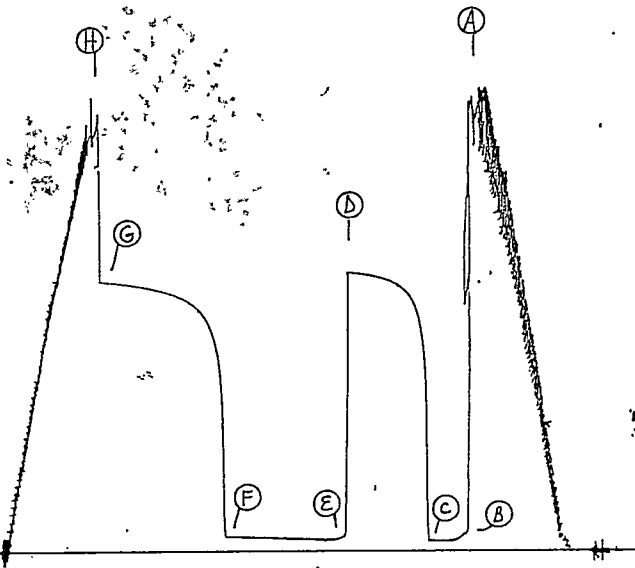
PRESSURE BREAKDOWN - CONT. - TICKET #7338

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
31							90	1362
32							93	1363
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13402
DST #2

TKT # 7338

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WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 11/29/84
CUSTOMER: PICKRELL DRILLING COMPANY
WELL: 2 TEST: 2
ELEVATION (KB): 1610 FORMATION: MISSISSIPPI
SECTION: 4 TOWNSHIP: 31S
RANGE: 7W COUNTY: HARPER STATE: KANSAS
GAUGE SN #13402 RANGE: 4025 CLOCK: 12

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

20	MERLA	1/2	1.0 PSIG	33900 CFPD
30			1.5	41000

SECOND FLOW

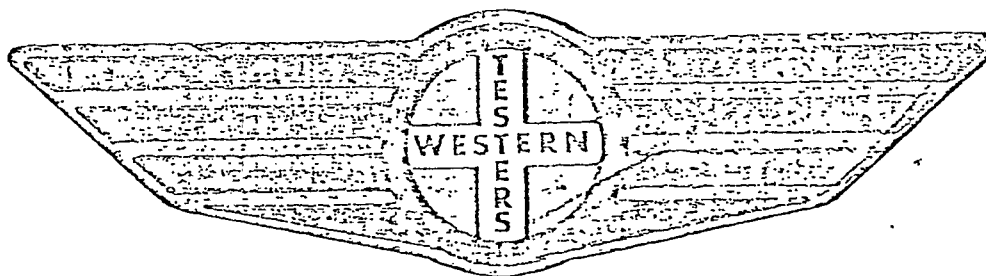
10	MERLA	1/2	2.5 PSIG	53400 CFPD
20			2.5	53400
30			2.5	53400
40			2.0	47700
50			2.0	47700
60			2.0	47700
70			2.0	47700
80			2.0	47700
90			2.0	47700

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

FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

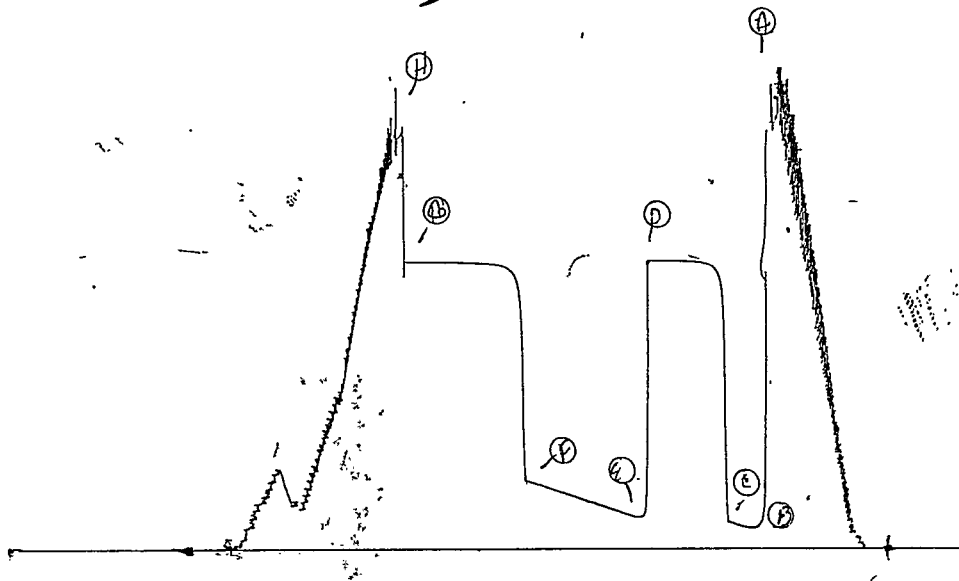
Phone (316) 262-5861

Company PICKRELL DRILLING COMPANY Lease and Well No. #2 "A" ALBRIGHT Sec. 4 Twp. 31S Rge. 7W Test No. 3 Date 1/29/84

13402
DST #3

PKT # 7339

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/29/84 TICKET #7339
CUSTOMER: PICKRELL DRILLING COMPANY LEASE: "L" ALBRIGHT
WELL: 2 TEST: 3 GEOLOGIST: KLAVER
ELEVATION (KB): 1610 FORMATION: MISSISSIPPI
SECTION: 4 TOWNSHIP: 31S
RANGE: 7W COUNTY: HARPER STATE: KANSAS
GAUGE SN #13402 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 4359 FT TO: 4371 FT TOTAL DEPTH: 4371 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4354 FT SIZE: 6 3/4 IN PACKER DEPTH: 4359 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL DRLG
MUD TYPE: CHEMICAL VISCOSITY: 90
WEIGHT: 9.3 WATER LOSS (CC): 16.4
CHLORIDES (P.P.M.): 20000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4159 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 12 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 7 MINUTES. SEE
ATTACHED SHEET FOR GAS MEASUREMENTS.

RECOVERED: 750 FT OF: GASSY OIL.
RECOVERED: 180 FT OF: HEAVY OIL CUT MUD.
RECOVERED: 120 FT OF: MUDDY WATER.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 8:40 PM TIME STARTED OFF BOTTOM: 1:10 AM
WELL TEMPERATURE: 120 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2279 PSI
INITIAL FLOW PERIOD MIN: 25 (B) 106 PSI TO (C) 134 PSI
INITIAL CLOSED IN PERIOD MIN: 63 (D) 1451 PSI
FINAL FLOW PERIOD MIN: 90 (E) 161 PSI TO (F) 348 PSI
FINAL CLOSED IN PERIOD MIN: 93 (G) 1445 PSI
FINAL HYDROSTATIC PRESSURE (H) 2113 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 11/29/84

CUSTOMER: PICKRELL DRILLING COMPANY

TEST: 3

ELEVATION (KB): 1610

FORMATION: MISSISSIPPI

COUNTY: HARPER

RANGE: 4025

TICKET #7339

LEASE: 'L' ALBRIGHT

GEOLOGIST: KLAVER

FORMATION: MISSISSIPPI

TOWNSHIP: 31S

STATE: KANSAS

CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 2279 PSI

(B) FIRST INITIAL FLOW PRESSURE: 106 PSI

(C) FIRST FINAL FLOW PRESSURE: 134 PSI

(D) INITIAL CLOSED-IN PRESSURE: 1451 PSI

(E) SECOND INITIAL FLOW PRESSURE: 161 PSI

(F) SECOND FINAL FLOW PRESSURE: 348 PSI

(G) FINAL CLOSED-IN PRESSURE: 1445 PSI

(H) FINAL HYDROSTATIC PRESSURE: 2113 PSI

WELL TEMPERATURE: 120 °F

OPEN TOOL: 8:40 PM

TIME - GIVEN TIME - ACTUAL

FIRST FLOW PRESSURE: 30 MIN 25 MIN

INITIAL CLOSED-IN PRESSURE: 60 MIN 63 MIN

SECOND FLOW PRESSURE: 90 MIN 90 MIN

FINAL CLOSED-IN PRESSURE: 90 MIN 93 MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	106	0	134	0	161	0	348
2	5	106	3	423	5	161	3	818
3	10	106	6	996	10	163	6	1195
4	15	110	9	1289	15	177	9	1339
5	20	120	12	1382	20	189	12	1384
6	25	134	15	1412	25	199	15	1404
7			18	1428	30	209	18	1418
8			21	1435	35	220	21	1426
9			24	1440	40	232	24	1430
10			27	1444	45	244	27	1433
11			30	1445	50	254	30	1436
12			33	1446	55	266	33	1437
13			36	1447	60	278	36	1438
14			39	1448	65	289	39	1439
15			42	1448	70	301	42	1440
16			45	1449	75	313	45	1441
17			48	1449	80	324	48	1442
18			51	1450	85	336	51	1443
19			54	1450	90	348	54	1444
20			57	1451			57	1444
21			60	1451			60	1444
22			63	1451			63	1445
23							66	1445
24							69	1445
25							72	1445
26							75	1445
27							78	1445
28							81	1445
29							84	1445
30							87	1445

WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 11/29/84
CUSTOMER: PICKRELL DRILLING COMPANY
WELL: 2
ELEVATION (KB): 1610
SECTION: 4
RANGE: 7W
GAUGE SN #13402

TEST: 3
FORMATION: MISSISSIPPI
TOWNSHIP: 31S
COUNTY: HARPER
RANGE: 4025

TICKET #7339
LEASE: "L" ALBRIGHT
GEOLOGIST: KLAVER
STATE: KANSAS
CLOCK: 12

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

20	MERLA	1/2	3.0 PSIG	59200 CFPD
30			3.0	59200

SECOND FLOW

10	MERLA	1/2	3.0 PSIG	59200 CFPD
20			1.5	41000
30			3.0	59200
40			1.0	33900
50			1.5	41000
60			1.0	33900
70			1.0	33900
80			1.5	41000
90			1.0	33900

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