

WESTERN TESTING COMPANY
SUBSURFACE PRESSURE SURVEY

DATE: 4/20/83 TICKET #18757
CUSTOMER: PICKRELL DRILLING LEASE: "JJ" YOUNG
WELL: 1 TEST: 1 GEOLOGIST: BILL KLAVER
ELEVATION (KB): 0 FORMATION: MISSISSIPPIAN
SECTION: 23 TOWNSHIP: 29S
RANGE: 8W COUNTY: KINGMAN STATE: KANSAS
GAUGE SN #1566 RANGE: 4300 CLOCK: 12

INTERVAL TEST FROM: 4201 FT TO: 4218 FT TOTAL DEPTH: 4218 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4196 FT SIZE: 6 5/8 IN PACKER DEPTH: 4201 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL DRILLING
MUD TYPE: CHEMICAL VISCOSITY: 42
WEIGHT: 9.3 WATER LOSS (CC): 12.0
CHLORIDES (P.P.M.): 20000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 249 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3931 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 17 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 IN

BLOW: STRONG BLOW THROUGHOUT TEST.
GAS TO SURFACE 10 MINUTES INTO INITIAL FLOW.
SEE ATTACHED GAS SHEET FOR MEASUREMENTS.

RECOVERED: 280 FT OF: MUDDY WATER. CHLORIDES 48000 PPM.
RECOVERED: FT OF:
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: TORE UP NEW FLOTATION PACKER.

TIME SET PACKER(S): 10:30 AM TIME STARTED OFF BOTTOM: 3:00 PM
WELL TEMPERATURE: 120 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2167 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 77 PSI TO (C) 111 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 973 PSI
FINAL FLOW PERIOD MIN: 90 (E) 130 PSI TO (F) 130 PSI
FINAL CLOSED IN PERIOD MIN: 90 (G) 959 PSI
FINAL HYDROSTATIC PRESSURE (H) 2144 PSI

DATE: 4/20/83	TICKET #18757
CUSTOMER: PICKRELL DRILLING	LEASE: "JJ" YOUNG
WELL: 1	TEST: 1
ELEVATION (KB): 0	FORMATION: MISSISSIPPIAN
SECTION: 23	TOWNSHIP: 29S
RANGE: 8W	COUNTY: KINGMAN
GAUGE SN #1566	STATE: KANSAS
	CLOCK: 12

	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	90 MIN

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WESTERN TESTING COMPANY
GAS FLOW REPORT

DATE: 4/20/83

CUSTOMER: PICKRELL DRILLING

CLOCK: 12

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
0.00	1000	0.063	100	0.00
0.01	1000	0.063	100	0.00
0.02	1000	0.063	100	0.00
0.03	1000	0.063	100	0.00
0.04	1000	0.063	100	0.00
0.05	1000	0.063	100	0.00
0.06	1000	0.063	100	0.00
0.07	1000	0.063	100	0.00
0.08	1000	0.063	100	0.00
0.09	1000	0.063	100	0.00
0.10	1000	0.063	100	0.00
0.11	1000	0.063	100	0.00
0.12	1000	0.063	100	0.00
0.13	1000	0.063	100	0.00
0.14	1000	0.063	100	0.00
0.15	1000	0.063	100	0.00
0.16	1000	0.063	100	0.00
0.17	1000	0.063	100	0.00
0.18	1000	0.063	100	0.00
0.19	1000	0.063	100	0.00
0.20	1000	0.063	100	0.00
0.21	1000	0.063	100	0.00
0.22	1000	0.063	100	0.00
0.23	1000	0.063	100	0.00
0.24	1000	0.063	100	0.00
0.25	1000	0.063	100	0.00
0.26	1000	0.063	100	0.00
0.27	1000	0.063	100	0.00
0.28	1000	0.063	100	0.00
0.29	1000	0.063	100	0.00
0.30	1000	0.063	100	0.00
0.31	1000	0.063	100	0.00
0.32	1000	0.063	100	0.00
0.33	1000	0.063	100	0.00
0.34	1000	0.063	100	0.00
0.35	1000	0.063	100	0.00
0.36	1000	0.063	100	0.00
0.37	1000	0.063	100	0.00
0.38	1000	0.063	100	0.00
0.39	1000	0.063	100	0.00
0.40	1000	0.063	100	0.00
0.41	1000	0.063	100	0.00
0.42	1000	0.063	100	0.00
0.43	1000	0.063	100	0.00
0.44	1000	0.063	100	0.00
0.45	1000	0.063	100	0.00
0.46	1000	0.063	100	0.00
0.47	1000	0.063	100	0.00
0.48	1000	0.063	100	0.00
0.49	1000	0.063	100	0.00
0.50	1000	0.063	100	0.00
0.51	1000	0.063	100	0.00
0.52	1000	0.063	100	0.00
0.53	1000	0.063	100	0.00
0.54	1000	0.063	100	0.00
0.55	1000	0.063	100	0.00
0.56	1000	0.063	100	0.00
0.57	1000	0.063	100	0.00
0.58	1000	0.063	100	0.00
0.59	1000	0.063	100	0.00
0.60	1000	0.063	100	0.00
0.61	1000	0.063	100	0.00
0.62	1000	0.063	100	0.00
0.63	1000	0.063	100	0.00
0.64	1000	0.063	100	0.00
0.65	1000	0.063	100	0.00
0.66	1000	0.063	100	0.00
0.67	1000	0.063	100	0.00
0.68	1000	0.063	100	0.00
0.69	1000	0.063	100	0.00
0.70	1000	0.0		

PRE FLOW

15	MERLA	1/4	9	29000	CFD
20		1/4	20	47100	CFD
25		1/4	30	61900	CFD
30		1/4	36	70300	CFD

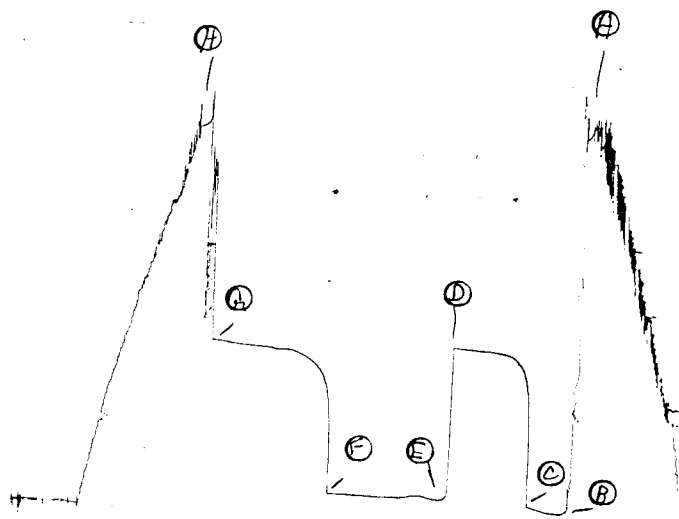
SECOND FLOW

5	MERLA	1/4	25	54700	CFD
10		1/4	40	75800	CFD
20		1/2	46	315000	CFD
30		1/2	20	177000	CFD
40		1/2	20	177000	CFD
50		1/2	20	177000	CFD
60		1/2	20	177000	CFD
70		1/2	20	177000	CFD
80		1/2	20	177000	CFD
90		1/2	20	177000	CFD

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

TKT 18751

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WESTERN TESTING COMPANY
SUBSURFACE PRESSURE SURVEY

DATE: 4/21/83
CUSTOMER: PICKRELL DRILLING
WELL: 1 TEST: 2
ELEVATION (KB): 0 FORMATION: MISSISSIPPIAN
SECTION: 23 TOWNSHIP: 29S
RANGE: 8W COUNTY: KINGMAN STATE: KANSAS
GAUGE SN #1566 RANGE: 4300 CLOCK: 12

TICKET #18758
LEASE: "JJ" YOUNG
GEOLOGIST: BILL KLAVER

INTERVAL TEST FROM: 4219 FT TO: 4228 FT TOTAL DEPTH: 4228 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4214 FT SIZE: 6 5/8 IN PACKER DEPTH: 4219 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL DRILLING
MUD TYPE: CHEMICAL VISCOSITY: 51
WEIGHT: 9.6 WATER LOSS (CC): 15.2
CHLORIDES (P.P.M.): 22000

JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO

DRILL COLLAR LENGTH: 249 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3949 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 9 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 IN

BLOW: STRONG BLOW THROUGHOUT TEST.
GAS TO SURFACE 22 MINUTES INTO INITIAL FLOW.
SEE ATTACHED GAS SHEET FOR MEASUREMENTS.

RECOVERED: 200 FT OF: MUDDY WATER. CHLORIDES 88000 PPM.
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:

TIME SET PACKER(S): 3:30 AM
WELL TEMPERATURE: 120 °F
INITIAL HYDROSTATIC PRESSURE:
INITIAL FLOW PERIOD MIN: 30
INITIAL CLOSED IN PERIOD MIN: 60
FINAL FLOW PERIOD MIN: 90
FINAL CLOSED IN PERIOD MIN: 96
FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM: 8:00 AM
(A) 2150 PSI
(B) 51 PSI TO (C) 51 PSI
(D) 955 PSI
(E) 72 PSI TO (F) 72 PSI
(G) 958 PSI
(H) 2149 PSI

WESTERN TESTING COMPANY
PRESSURE DATA

DATE: 4/21/83

CUSTOMER: PICKRELL DRILLING

TEST: 2

FORMATION: MISSISSIPPIAN

TOWNSHIP: 29S

COUNTY: KINGMAN

RANGE: 4300

TICKET #18758

LEASE: 'JJ' YOUNG

GEOLOGIST: BILL KLAVER

MISSISSIPPIAN

295

STATE: KANSAS

CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 2150 PSI

(B) FIRST INITIAL FLOW PRESSURE: 51 PSI

(C) FIRST FINAL FLOW PRESSURE: 51 PSI

(D) INITIAL CLOSED-IN PRESSURE: 955 PSI

(E) SECOND INITIAL FLOW PRESSURE: 72 PSI

(F) SECOND FINAL FLOW PRESSURE: 72 PSI

(G) FINAL CLOSED-IN PRESSURE: 958 PSI

(H) FINAL HYDROSTATIC PRESSURE: 2149 PSI

WELL TEMPERATURE: 120 °F

OPEN TOOL: 3:30 AM

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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WESTERN TESTING COMPANY
GAS FLOW REPORT

DATE: 4/21/83
CUSTOMER: PICKRELL DRILLING
WELL: 1 TEST: 2
ELEVATION (KB): 0 FORMATION: MISSISSIPPIAN
SECTION: 23 TOWNSHIP: 29S
RANGE: 8W COUNTY: KINGMAN STATE: KANSAS
GAUGE SN #1566 RANGE: 4300 CLOCK: 12

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

25	MERLA	1/4	2	12700 CFD
30		1/4	2.5	14300 CFD

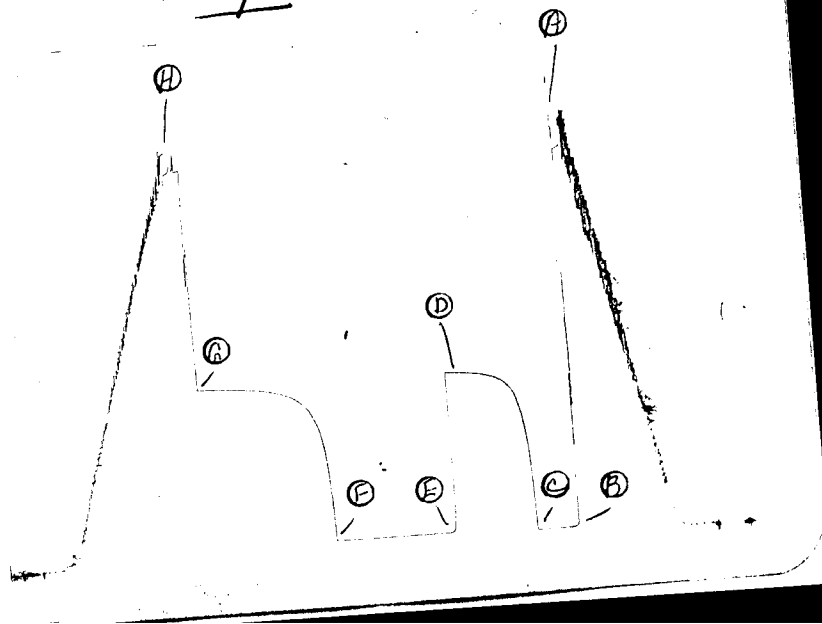
SECOND FLOW

5	MERLA	1/4	2.5	14300 CFD
10		1/4	5	20700 CFD
20		1/4	8.5	28000 CFD
30		1/4	9	29000 CFD
40		1/4	9	29000 CFD
50		1/4	9.5	29900 CFD
60		1/4	10	30800 CFD
70		1/4	10	30800 CFD
80		1/4	10	30800 CFD
90		1/4	10	30800 CFD

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

TKT 18758

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WESTERN TESTING COMPANY
SUBSURFACE PRESSURE SURVEY

DATE: 4/22/83 TICKET #18759
CUSTOMER: PICKRELL DRLG LEASE: "JJ" YOUNG
WELL: 1 TEST: 3 GEOLOGIST: BILL KLAVER
ELEVATION (KB): 0 FORMATION: MISSISSIPPIAN
SECTION: 23 TOWNSHIP: 29S
RANGE: 8W COUNTY: KINGMAN STATE: KANSAS
GAUGE SN #3086 RANGE: 4500 CLOCK: 12

INTERVAL TEST FROM: 4248 FT TO: 4275 FT TOTAL DEPTH: 4275 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4243 FT SIZE: 6 5/8 IN PACKER DEPTH: 4248 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL DRLG
MUD TYPE: VISCOSITY: 45
WEIGHT: 9.3 WATER LOSS (CC): 22.0
CHLORIDES (P.P.M.): 22000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 249 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3978 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 27 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 XH IN

BLOW: INITIAL FLOW VERY WEAK BLOW. DIED IN 12
MINUTES. FINAL FLOW VERY WEAK BLOW.
DEAD IN 2 MINUTES. FLUSHED TOOL.
VERY WEAK BLOW. DEAD IN 2 MINUTES.

RECOVERED: 120 FT OF: WATERY DRILLING MUD WITH A FEW OIL SPECKS.
RECOVERED: FT OF: 50% WATER; 50% DRILLING MUD.
RECOVERED: FT OF: CHLORIDES 25000 PPM.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: READ CHART 3086. SLID TOOL 5' TO BOTTOM.

TIME SET PACKER(S): 1:30 AM TIME STARTED OFF BOTTOM: 4:30 AM
WELL TEMPERATURE: 0 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2222 PSI
INITIAL FLOW PERIOD MIN: 35 (B) 77 PSI TO (C) 77 PSI
INITIAL CLOSED IN PERIOD MIN: 57 (D) 896 PSI
FINAL FLOW PERIOD MIN: 60 (E) 132 PSI TO (F) 106 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 676 PSI
FINAL HYDROSTATIC PRESSURE (H) 2186 PSI

TKT. 18'159

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