



Home Office: Wichita, Kansas 67201
 P. O. Box 1599 (316) 838-0601

Company Pickrell Drilling Company Lease & Well No. Davis J-1
 Elevation 2250 Kelly Bushing Formation Lansing Effective Pay - Ft. Ticket No. 22101
 Date 2-5-76 Sec. 10 Twp. 27S Range 19W County Stafford State Kansas
 Test Approved by R.K. Grant Western Representative Max Knipe

Formation Test No. 1 O.K. Misrun Interval Tested From 4185' to 4214' Total Depth 4214'
 Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 4180 Ft. Size 6 3/4 Bottom Packer Depth 4185 Ft. Size 6 3/4
 Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 29 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4206 Ft. Clock No. 8475 Depth 4209 Ft. Clock No. 6799
 Top Make Kuster Cap. 4150 No. 2606 ~~Inside~~ Outside Bottom Make Kuster Cap. 4000 No. 3351 ~~Inside~~ Outside
 Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside

Time Set Packer 1:55 A. M
 Tool Open I.F.P. From 2:05A M. to 3:10A M. 1 Hr. 5 Min. From (B) 126 P.S.I. To (C) 100 P.S.I.
 Tool Closed I.C.I.P. From 3:10A M. to 3:40A M. - Hr. 30 Min (D) 1149 P.S.I.
 Tool Open F.F.P. From 3:40A M. to 5:10A M. 1 Hr. 30 Min. From (E) 100 P.S.I. To (F) 112 P.S.I.
 Tool Closed F.C.I.P. From 5:10A M. to 6:10A M. 1 Hr. - Min. (G) 1215 P.S.I.
 Initial Hydrostatic Pressure (A) 2144 P.S.I. Final Hydrostatic Pressure (H) 2117 P.S.I. Maximum Temp. -

INFORMATION

BLOW Strong blow gas to surface in 1 hour 25 minutes on second flow. Total time fro gas to surface 2 hours 30 minutes to small to measure.

Did Well Flow Yes No Recovery Total Ft. 130' gas cut mud.

Reversed Out Yes No Mud Type starch Viscosity 49 Weight 9.3 Water Loss - cc. Chlorides -

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer yes Did Packers Hold? yes Did Tool Plug? yes Where? anchor

DRILLING CONTRACTOR Pickrell Drlg. Co. Length Drill Pipe? 4162 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 52 Ft.

Remarks: Slid tool 30' to bottom

Extra long pre-flow due to tool movement

WESTERN TESTING CO., INC.

Pressure Data

Date 2-5-76

Test Ticket No. 22101

Recorder No. 2606 Capacity 4150 Location 4206 Ft.

Clock No. 8475 Elevation 2250 Kelly Bushing Well Temperature - °F

Point	Pressure		Open Tool	Time Given		Time Computed	
		P.S.I.					
A. Initial Hydrostatic Mud	2144	P.S.I.	Open Tool	1:55 A.	M		
B. First Initial Flow Pressure	126	P.S.I.	First Flow Pressure	65	Mins.	65	Mins.
C. First Final Flow Pressure	100	P.S.I.	Initial Closed-in Pressure	30	Mins.	30	Mins.
D. Initial Closed-in Pressure	1149	P.S.I.	Second Flow Pressure	90	Mins.	85	Mins.
E. Second Initial Flow Pressure	100	P.S.I.	Final Closed-in Pressure	60	Mins.	57	Mins.
F. Second Final Flow Pressure	112	P.S.I.					
G. Final Closed-in Pressure	1215	P.S.I.					
H. Final Hydrostatic Mud	2117	P.S.I.					

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 13 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

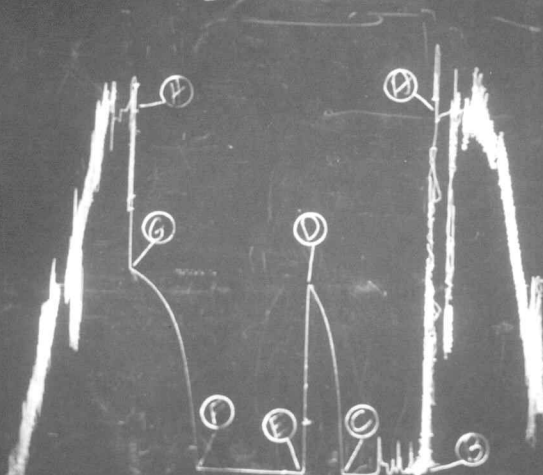
Second Flow Pressure
Breakdown: 17 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 19 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0		126	0	100	0	100	0	112
P 2 5		plugging action	3	299	5	102	3	268
P 3 10		plugging action	6	518	10	104	6	408
P 4 15		plugging action	9	659	15	106	9	533
P 5 20		plugging action	12	790	20	106	12	645
P 6 25		plugging action	15	889	25	106	15	745
P 7 30		plugging action	18	965	30	106	18	825
P 8 35			21	1023	35	107	21	890
P 9 40			24	1066	40	108	24	947
P10 45			27	1108	45	109	27	991
P11 50			30	1149	50	110	30	1029
P12 55					55	111	33	1062
P13 60					60	111	36	1089
P14 65					65	108	39	1115
P15					70	109	42	1137
P16					75	111	45	1155
P17					80	112	48	1172
P18					85	112	51	1188
P19							54	1203
P20							57	1215

TIT # 22101

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Home Office: Wichita, Kansas 67201
 P. O. Box 1599 (316) 838-0601

Company Pickrell Drilling Company Lease & Well No. Davis J-1
 Elevation 2250 Kelly Bushing Formation Lansing Effective Pay - Ft. Ticket No. 22102
 Date 2-5-76 Sec. 10 Twp. 27S Range 19W County Kiowa State Kansas
 Test Approved by R.K. Grant Western Representative Max Knife

Formation Test No. 2 O.K. Misrun Interval Tested From 4185' to 4214' Total Depth 4214'
 Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 4180 Ft. Size 6 3/4 Bottom Packer Depth 4185 Ft. Size 6 3/4
 Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 29 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
 RECORDERS Depth 4206 Ft. Clock No. 8475 Depth 4209 Ft. Clock No. 6799
 Top Make Kuster Cap. 4150 No. 2606 ~~Inside~~ Outside Bottom Make Kuster Cap. 4000 No. 3351 ~~Inside~~ Outside
 Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside

Time Set Packer 6:45P. M
 Tool Open I.F.P. From 6:55P M. to 7:25P M. - Hr. 30 Min. From (B) 126 P.S.I. To (C) 118 P.S.I.
 Tool Closed I.C.I.P. From 7:25P M. to 7:55P M. - Hr. 30 Min (D) 833 P.S.I.
 Tool Open F.F.P. From 7:55P M. to 9:25P M. 1 Hr. 30 Min. From (E) 131 P.S.I. To (F) 137 P.S.I.
 Tool Closed F.C.I.P. From 9:25P M. to 10:25P M. 1 Hr. - Min. (G) 1043 P.S.I.
 Initial Hydrostatic Pressure (A) 2194 P.S.I. Final Hydrostatic Pressure (H) 2184 P.S.I. Maximum Temp. 116

INFORMATION

BLOW Strong blow throughout test.
 Did Well Flow Yes No Recovery Total Ft. 248' slightly gas cut mud.

Reversed Out Yes No Mud Type starch Viscosity 43 Weight 9.5 Water Loss 14.4 cc. Chlorides 68,000 P.P.M.
 EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint Jars: Size - In. Make - Ser. No. -
 Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -
 DRILLING CONTRACTOR Pickrell Drlg. Co. Length Drill Pipe? 4162 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.
 Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars - Ft. I.D. Drill Collars - In.
 Tool Joint Size - In. Length D.S.T. Tool 52 Ft.
 Remarks: Slid tool 12' to bottom.

WESTERN TESTING CO., INC.

Pressure Data

Date 2-5-76 Test Ticket No. 22102
 Recorder No. 2606 Capacity 4150 Location 4206 Ft.
 Clock No. 8475 Elevation 2250 Kelly Bushing Well Temperature 116 °F

Point	Pressure	Open Tool	Time Given	Time Computed
			P. M	Mins.
A Initial Hydrostatic Mud	2194 P.S.I.		6:45	
B First Initial Flow Pressure	126 P.S.I.	First Flow Pressure	30 Mins.	25 Mins.
C First Final Flow Pressure	118 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	833 P.S.I.	Second Flow Pressure	90 Mins.	85 Mins.
E Second Initial Flow Pressure	131 P.S.I.	Final Closed-in Pressure	60 Mins.	57 Mins.
F Second Final Flow Pressure	137 P.S.I.			
G Final Closed-in Pressure	1043 P.S.I.			
H Final Hydrostatic Mud	2184 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 5 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

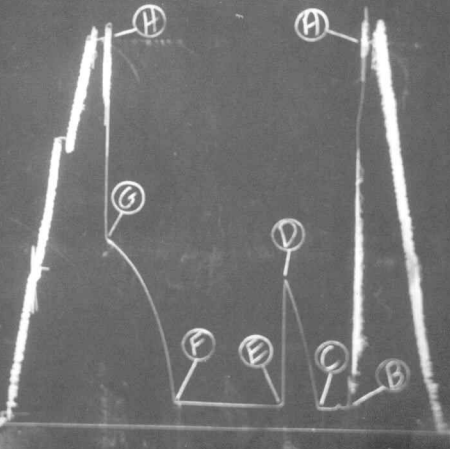
Second Flow Pressure
 Breakdown: 17 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 19 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	126	0	118	0	131	0	137
P 2 5	124	3	223	5	126	3	243
P 3 10	123	6	320	10	127	6	362
P 4 15	120	9	410	15	127	9	453
P 5 20	118	12	489	20	128	12	527
P 6 25	118	15	560	25	129	15	587
P 7		18	628	30	130	18	538
P 8		21	688	35	130	21	689
P 9		24	748	40	131	24	736
P10		27	806	45	131	27	784
P11		30	833	50	132	30	822
P12				55	132	33	855
P13				60	133	36	888
P14				65	134	39	917
P15				70	135	42	942
P16				75	136	45	967
P17				80	137	48	990
P18				85	137	51	1009
P19						54	1027
P20						57	1043

TAT # 22102

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Home Office: Wichita, Kansas 67201
 P. O. Box 1599 (316) 838-0601

Company Pickrell Drilling Company Lease & Well No. Davis J-1
 Elevation 2250 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 22103
 Date 2-6-76 Sec. 10 Twp. 27S Range 19W County Kiowa State Kansas
 Test Approved by R.K. Grant Western Representative Max Knipe

Formation Test No. 3 O.K. Misrun Interval Tested From 4224' to 4250' Total Depth 4250'
 Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 4219 Ft. Size 6 3/4 Bottom Packer Depth 4224 Ft. Size 6 3/4
 Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 26 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4242 Ft. Clock No. 8475 Depth 4245 Ft. Clock No. 6799
 Top Make Kuster Cap. 4150 No. 2606 ~~Inside~~ Outside Bottom Make Kuster Cap. 4000 No. 3351 ~~Inside~~ Outside
 Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside

Time Set Packer 7:15 P. M
 Tool Open I.F.P. From 7:25P M. to 7:55P M. - Hr. 30 Min. From (B) 146 P.S.I. To (C) 226 P.S.I.
 Tool Closed I.C.I.P. From 7:55P M. to 8:25P M. - Hr. 30 Min (D) 1427 P.S.I.
 Tool Open F.F.P. From 8:25P M. to 9:25P M. 1 Hr. - Min. From (E) 248 P.S.I. To (F) 310 P.S.I.
 Tool Closed F.C.I.P. From 9:25P M. to 10:25P M. 1 Hr. - Min. (G) 1433 P.S.I.
 Initial Hydrostatic Pressure (A) 2234 P.S.I. Final Hydrostatic Pressure (H) 2212 P.S.I. Maximum Temp. 120

INFORMATION

BLOW Strong blow throughout test.
 Did Well Flow Yes No Recovery Total Ft. 35' gas cut mud. 248' slightly oil and gas cut mud.
248' slightly oil and gas cut watery mud. 186' gas cut water
chlorides checked 32,000 P.P.M.

Reversed Out Yes No Mud Type starch Viscosity 40 Weight 9.5 Water Loss 12.5 cc. Chlorides 50,000 P.P.M.

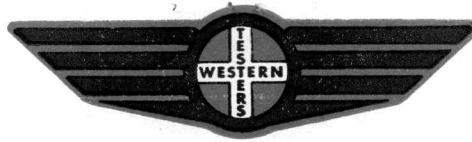
EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR Pickrell Drlg. Co. Length Drill Pipe? 4202 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.
 Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars - Ft. I.D. Drill Collars - In.
 Tool Joint Size - In. Length D.S.T. Tool 48 Ft.

Remarks: Slid tool 15' to bottom. See attached sheet for gas measurements.

Phone 316 262-5861
316 838-0601



P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 2-6-76 Ticket 22103 Company Pickrell Drilling Company
Well Name and No. Davis J-1 Dst No. 3 Interval Tested 4224' to 4250'
County Kiowa State Kansas Sec. 10 Twp. 27S Rg. 19W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitor Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
7:41 PM	10 min	10 PSIG	3/4" choke			259,000 C.F.P.D
7:51 PM	20 min	17 PSIG	3/4" choke			357,000 C.F.P.D
Tool opened at 7:25 P.M. on pre-flow period. Gas to surface in 6 minutes.						

SECOND FLOW						
8:35 PM	10 min.	25 PSIG	3/4" choke			461,000 C.F.P.D.
8:45 PM	20 min.	26 PSIG	3/4" choke			473,000 C.F.P.D.
8:55 PM	30 min.	26 PSIG	3/4" choke			473,000 C.F.P.D.
9:05 PM	40 min.	26 PSIG	3/4" choke			473,000 C.F.P.D.
9:15 PM	50 min.	26 PSIG	3/4" choke			473,000 C.F.P.D.
9:25PM	60 min.	26 PSIG	3/4" choke			473,000 C.F.P.D.
All measurements were taken through a 2" merla orifice well tester with a 3/4" choke.						

GAS BOTTLE

Serial No. 630 Date Bottle Filled 2-6-76 Date to be Invoiced 2-6-76

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Pickrell Drilling Co,
Authorized by R.K. Grant

WESTERN TESTING CO., INC.

Pressure Data

Date 2-6-76

Test Ticket No. 22103

Recorder No. 2606 Capacity 4150 Location 4242 Ft.

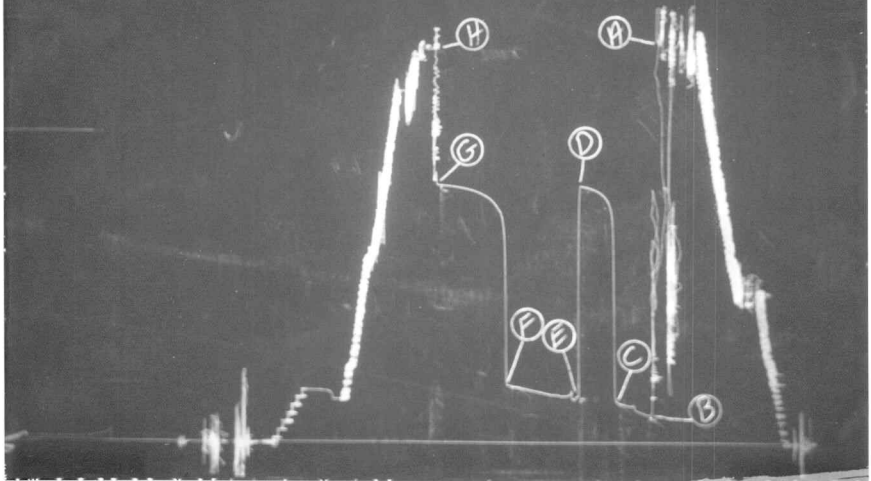
Clock No. 8475 Elevation 2250 Kelly Bushing Well Temperature 120 °F

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	2234 P.S.I.	Open Tool		7:15 P. M.	
B First Initial Flow Pressure	146 P.S.I.	First Flow Pressure		30 Mins.	30 Mins.
C First Final Flow Pressure	226 P.S.I.	Initial Closed-in Pressure		30 Mins.	30 Mins.
D Initial Closed-in Pressure	1427 P.S.I.	Second Flow Pressure		60 Mins.	55 Mins.
E Second Initial Flow Pressure	248 P.S.I.	Final Closed-in Pressure		60 Mins.	57 Mins.
F Second Final Flow Pressure	310 P.S.I.				
G Final Closed-in Pressure	1433 P.S.I.				
H Final Hydrostatic Mud	2212 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>19</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	146	0	226	0	248	0	310
P 2 5	150	3	992	5	236	3	1017
P 3 10	162	6	1304	10	253	6	1246
P 4 15	198	9	1353	15	254	9	1298
P 5 20	201	12	1377	20	258	12	1327
P 6 25	210	15	1394	25	264	15	1352
P 7 30	226	18	1404	30	272	18	1367
P 8		21	1413	35	280	21	1378
P 9		24	1420	40	287	24	1389
P10		27	1424	45	295	27	1397
P11		30	1427	50	302	30	1404
P12				55	310	33	1410
P13						36	1414
P14						39	1419
P15						42	1422
P16						45	1425
P17						48	1428
P18						51	1430
P19						54	1432
P20						57	1433

THT# 22103
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INC.

P. O. Box 1599
Wichita, Kansas 67201

Company Pickrell Drilling Company Lease & Well No. Davis J-#1
Elevation 2250 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 22104
Date 2-8-76 Sec. 10 Twp. 27S Range 19W County Kiowa State Kansas
Test Approved by R.K. Grant Western Representative Max Knife

Formation Test No. 4 O.K. Misrun Interval Tested From 4347' to 4370' Total Depth 4370'
Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 4342 Ft. Size 6 3/4 Bottom Packer Depth 4347 Ft. Size 6 3/4
Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 23 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4354 Ft. Clock No. 8475 Depth 4357 Ft. Clock No. 6799
Top Make Kuster Cap. 4150 No. 2606 Inside Outside Bottom Make Kuster Cap. 4000 No. 3351 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 12:05 A. M
Tool Open I.F.P. From 12:10A M. to 12:40A M. - Hr. 30 Min. From (B) 29 P.S.I. To (C) 41 P.S.I.
Tool Closed I.C.I.P. From 12:40A M. to 1:10A M. - Hr. 30 Min (D) 1151 P.S.I.
Tool Open F.F.P. From 1:10A M. to 2:40AM 1 Hr. 30 Min. From (E) 53 P.S.I. To (F) 83 P.S.I.
Tool Closed F.C.I.P. From 2:40AM to 3:40AM 1 Hr. - Min. (G) 868 P.S.I.
Initial Hydrostatic Pressure (A) 2272 P.S.I. Final Hydrostatic Pressure (H) 2257 P.S.I. Maximum Temp. 120

INFORMATION

BLOW Strong blow throughout test.

Did Well Flow Yes No Recovery Total Ft. 2728' gas in pipe. 155' heavy oil and gas cut mud.
31' oil and gas cut muddy water.

Reversed Out Yes No Mud Type starch Viscosity 49 Weight 9.2 Water Loss 13.2 cc. Chlorides 55,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint Jars: Size - In. Make - Ser. No. -

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR Pickrell Drlg. Co. Length Drill Pipe? 4324 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 46 Ft.

Remarks: Shut in tool leaked off P.S.I. on final shut-in.

WESTERN TESTING CO., INC.
Pressure Data

Date 2-8-76 Test Ticket No. 22104
 Recorder No. 2606 Capacity 4150 Location 4354 Ft.
 Clock No. 8475 Elevation 2250 Kelly Bushing Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2272</u>	P.S.I.	<u>12:05</u>	<u>A. M.</u>
B First Initial Flow Pressure	<u>29</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
C First Final Flow Pressure	<u>41</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
D Initial Closed-in Pressure	<u>1151</u>	P.S.I.	<u>90</u>	<u>Mins.</u>
E Second Initial Flow Pressure	<u>53</u>	P.S.I.	<u>60</u>	<u>Mins.</u>
F Second Final Flow Pressure	<u>83</u>	P.S.I.		
G Final Closed-in Pressure	<u>868</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2257</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

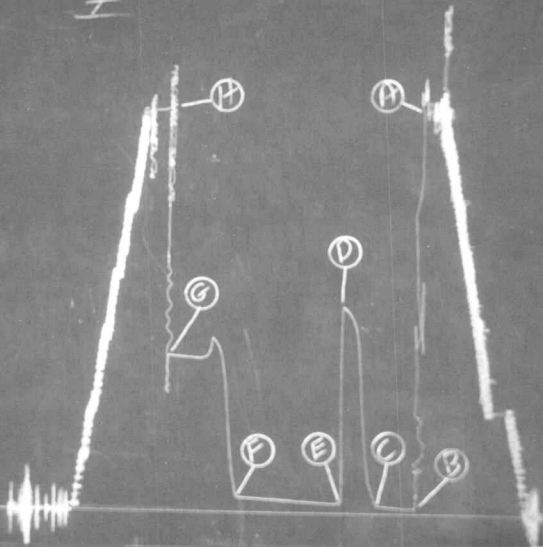
Second Flow Pressure
 Breakdown: 17 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 19 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>29</u>	<u>0</u>	<u>41</u>	<u>0</u>	<u>53</u>	<u>0</u>	<u>83</u>
P 2 <u>5</u>	<u>29</u>	<u>3</u>	<u>83</u>	<u>5</u>	<u>53</u>	<u>3</u>	<u>189</u>
P 3 <u>10</u>	<u>31</u>	<u>6</u>	<u>144</u>	<u>10</u>	<u>54</u>	<u>6</u>	<u>370</u>
P 4 <u>15</u>	<u>33</u>	<u>9</u>	<u>285</u>	<u>15</u>	<u>56</u>	<u>9</u>	<u>616</u>
P 5 <u>20</u>	<u>37</u>	<u>12</u>	<u>510</u>	<u>20</u>	<u>58</u>	<u>12</u>	<u>809</u>
P 6 <u>25</u>	<u>40</u>	<u>15</u>	<u>771</u>	<u>25</u>	<u>59</u>	<u>15</u>	<u>900</u>
P 7 <u>30</u>	<u>41</u>	<u>18</u>	<u>996</u>	<u>30</u>	<u>61</u>	<u>18</u>	<u>945</u>
P 8		<u>21</u>	<u>1070</u>	<u>35</u>	<u>63</u>	<u>21</u>	<u>956</u>
P 9		<u>24</u>	<u>1112</u>	<u>40</u>	<u>66</u>	<u>24</u>	<u>871</u>
P10		<u>27</u>	<u>1137</u>	<u>45</u>	<u>68</u>	<u>27</u>	<u>856</u>
P11		<u>30</u>	<u>1151</u>	<u>50</u>	<u>71</u>	<u>30</u>	<u>853</u>
P12				<u>55</u>	<u>73</u>	<u>33</u>	<u>854</u>
P13				<u>60</u>	<u>75</u>	<u>36</u>	<u>856</u>
P14				<u>65</u>	<u>76</u>	<u>39</u>	<u>858</u>
P15				<u>70</u>	<u>78</u>	<u>42</u>	<u>860</u>
P16				<u>75</u>	<u>80</u>	<u>45</u>	<u>861</u>
P17				<u>80</u>	<u>82</u>	<u>48</u>	<u>863</u>
P18				<u>85</u>	<u>83</u>	<u>52</u>	<u>865</u>
P19						<u>54</u>	<u>867</u>
P20						<u>57</u>	<u>868</u>

TKT # 22104

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Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Pickrell Drilling Company Lease & Well No. Davis J-1
Elevation 2250 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 22105
Date 2-10-76 Sec. 10 Twp. 27S Range 19W County Kiowa State Kansas
Test Approved by R.K. Grant Western Representative Max Knipe

Formation Test No. 5 O.K. Misrun Interval Tested From 4727' to 4787' Total Depth 4787'

Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No

Top Packer Depth 4722 Ft. Size 6 3/4 Bottom Packer Depth 4727 Ft. Size 6 3/4

Straddle Conv. B.T. Damaged Yes No Packer Depth Ft. Size

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 60 Ft. Size 31 DC 29 Perf Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4734 Ft. Clock No. 8475 Depth 4737 Ft. Clock No. 6799

Top Make Kuster Cap. 4150 No. 2606 Inside Outside Bottom Make Kuster Cap. 4000 No. 3351 Inside Outside

Below Straddle: Depth Rec. No. Clock No. Inside Outside Depth Ft. Rec. No. Clock No. Inside Outside

Time Set Packer 8:46 P. M

Tool Open I.F.P. From 8:50 P. M. to 9:20 P. M. - Hr. 30 Min. From (B) 43 P.S.I. To (C) 33 P.S.I.

Tool Closed I.C.I.P. From 9:20 P. M. to 9:50 P. M. - Hr. 30 Min (D) 439 P.S.I.

Tool Open F.F.P. From 9:50 P. M. to 11:20 P. M. 1 Hr. 30 Min. From (E) 41 P.S.I. To (F) 36 P.S.I.

Tool Closed F.C.I.P. From 11:20 P. M. to 12:20 P. M. 1 Hr. - Min. (G) 659 P.S.I.

Initial Hydrostatic Pressure (A) 2502 P.S.I. Final Hydrostatic Pressure (H) 2481 P.S.I. Maximum Temp. 124

INFORMATION

BLOW Strong blow throughout test.

Did Well Flow Yes No Recovery Total Ft. 60' mud no show

Reversed Out Yes No Mud Type starch Viscosity 42 Weight 9.7 Water Loss 9.2 cc. Chlorides 50,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint Jars: Size In. Make Ser. No.

Dual Packer Did Packers Hold? Did Tool Plug? no Where?

DRILLING CONTRACTOR Pickrell Drlg. Co. Length Drill Pipe? 4674 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe Ft. I.D. Weight Pipe In. Tool Joint Size In. Length Drill Collars 31 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H-90 In. Length D.S.T. Tool 82 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 2-10-76

Test Ticket No. 22105

Recorder No. 2606 Capacity 4150

Location 4734 Ft.

Clock No. 8475 Elevation 2250 Kelly Bushing

Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2502</u> P.S.I.	Open Tool	<u>8:46 P.</u> M	
B First Initial Flow Pressure	<u>43</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>33</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>439</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>85</u> Mins.
E Second Initial Flow Pressure	<u>41</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
F Second Final Flow Pressure	<u>36</u> P.S.I.			
G Final Closed-in Pressure	<u>659</u> P.S.I.			
H Final Hydrostatic Mud	<u>2481</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 7 Inc.
of 3 mins. and a
final inc. of 0 Min.

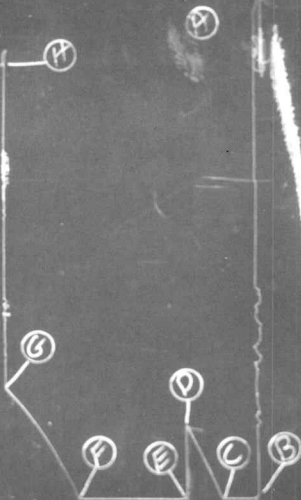
Second Flow Pressure
Breakdown: 17 Inc.
of 5 mins. and a
final inc. of 0 Min.

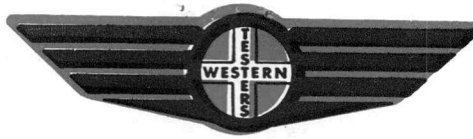
Final Shut-In
Breakdown: 19 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>43</u>	<u>0</u>	<u>33</u>	<u>0</u>	<u>41</u>	<u>0</u>	<u>36</u>
P 2 <u>5</u>	<u>31</u>	<u>3</u>	<u>77</u>	<u>5</u>	<u>31</u>	<u>3</u>	<u>69</u>
P 3 <u>10</u>	<u>30</u>	<u>6</u>	<u>126</u>	<u>10</u>	<u>31</u>	<u>6</u>	<u>114</u>
P 4 <u>15</u>	<u>31</u>	<u>9</u>	<u>178</u>	<u>15</u>	<u>32</u>	<u>9</u>	<u>158</u>
P 5 <u>20</u>	<u>32</u>	<u>12</u>	<u>222</u>	<u>20</u>	<u>32</u>	<u>12</u>	<u>199</u>
P 6 <u>25</u>	<u>32</u>	<u>15</u>	<u>268</u>	<u>25</u>	<u>33</u>	<u>15</u>	<u>235</u>
P 7 <u>30</u>	<u>33</u>	<u>18</u>	<u>310</u>	<u>30</u>	<u>33</u>	<u>18</u>	<u>276</u>
P 8		<u>21</u>	<u>355</u>	<u>35</u>	<u>34</u>	<u>21</u>	<u>312</u>
P 9		<u>24</u>	<u>396</u>	<u>40</u>	<u>34</u>	<u>24</u>	<u>347</u>
P10		<u>27</u>	<u>439</u>	<u>45</u>	<u>35</u>	<u>27</u>	<u>383</u>
P11				<u>50</u>	<u>35</u>	<u>30</u>	<u>416</u>
P12				<u>55</u>	<u>35</u>	<u>33</u>	<u>448</u>
P13				<u>60</u>	<u>35</u>	<u>36</u>	<u>477</u>
P14				<u>65</u>	<u>35</u>	<u>39</u>	<u>506</u>
P15				<u>70</u>	<u>35</u>	<u>42</u>	<u>537</u>
P16				<u>75</u>	<u>35</u>	<u>45</u>	<u>564</u>
P17				<u>80</u>	<u>36</u>	<u>48</u>	<u>589</u>
P18				<u>85</u>	<u>36</u>	<u>51</u>	<u>612</u>
P19						<u>54</u>	<u>639</u>
P20						<u>57</u>	<u>659</u>

THT # 22105

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Home Office: Wichita, Kansas 67201
 P. O. Box 1599 (316) 838-0601

Company Pickrell Drilling Company Lease & Well No. Davis J-1
 Elevation 2250 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 22106
 Date 2-11-76 Sec. 10 Twp. 27S Range 19W County Kiowa State Kansas
 Test Approved by R.K. Grant Western Representative Max Knipe

Formation Test No. 6 O.K. Misrun Interval Tested From 4786' to 4795' Total Depth 4795'
 Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 4781 Ft. Size 6 3/4 Bottom Packer Depth 4786 Ft. Size 6 3/4
 Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 9 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4788 Ft. Clock No. 8475 Depth 4791 Ft. Clock No. 6799
 Top Make Kuster Cap. 4150 No. 2606 Inside Outside Bottom Make Kuster Cap. 4000 No. 3351 Inside Outside
 Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 12:21 P.M.
 Tool Open I.F.P. From 12:25 P.M. to 12:55 P.M. - Hr. 30 Min. From (B) 64 P.S.I. To (C) 62 P.S.I.
 Tool Closed I.C.I.P. From 12:55 P.M. to 1:25 P.M. - Hr. 30 Min (D) 1023 P.S.I.
 Tool Open F.F.P. From 1:25 P.M. to 2:55 P.M. 1 Hr. 30 Min. From (E) 50 P.S.I. To (F) 60 P.S.I.
 Tool Closed F.C.I.P. From 2:55 P.M. to 3:55 P.M. 1 Hr. - Min. (G) 1321 P.S.I.
 Initial Hydrostatic Pressure (A) 2527 P.S.I. Final Hydrostatic Pressure (H) 2513 P.S.I. Maximum Temp. 124

INFORMATION

BLOW Strong blow throughout test.

Did Well Flow - Yes No Recovery Total Ft. 70' mud.

Reversed Out - Yes No Mud Type starch Viscosity 47 Weight 9.7 Water Loss 9.2 cc. Chlorides 50,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR Pickrell Drlg. Co. Length Drill Pipe? 4639 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 123 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H-90 In. Length D.S.T. Tool 33 Ft.

Remarks: Slid tool 6' to bottom.

WESTERN TESTING CO., INC.
Pressure Data

Date 2-11-76 Test Ticket No. 22106
 Recorder No. 2606 Capacity 4150 Location 4788 Ft.
 Clock No. 8475 Elevation 2250 Kelly Bushing Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2527	P.S.I.	12:21 P. M	
B First Initial Flow Pressure	64	P.S.I.	30 Mins.	35 Mins.
C First Final Flow Pressure	62	P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1023	P.S.I.	90 Mins.	90 Mins.
E Second Initial Flow Pressure	50	P.S.I.	60 Mins.	63 Mins.
F Second Final Flow Pressure	60	P.S.I.		
G Final Closed-in Pressure	1321	P.S.I.		
H Final Hydrostatic Mud	2513	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>21</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	64	0	62	0	50	60
P 2	5	62	3	191	5	54	297
P 3	10	61	6	327	10	57	496
P 4	15	60	9	441	15	57	671
P 5	20	60	12	560	20	58	819
P 6	25	61	15	664	25	58	938
P 7	30	62	18	761	30	59	1023
P 8	35	62	21	848	35	59	1090
P 9			24	925	40	59	1139
P10			27	985	45	59	1174
P11			30	1023	50	59	1201
P12					55	59	1221
P13					60	59	1241
P14					65	59	1256
P15					70	59	1268
P16					75	59	1277
P17					80	60	1288
P18					85	60	1296
P19					90	60	1302
P20							1311
							1317
							1321

TAT # 22106

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