



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 22036

P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

Formation Miss Elevation 2252 K.B Eff. Pay ✓ Ft.

District Great Bend Date 3-12-76 Customer Order No. ✓
COMPANY NAME Picknell Drilling Co. Littern Bldg. 110 N. Market Suite 200
ADDRESS 985 Fourth National Bldg. Wichita, Kans. 67202
LEASE AND WELL NO. Secret-Berryman "A" #1 COUNTY Clark STATE Kans. Sec. 32 Twp. 30 Rge. 21 W
Mail Inv. To Same Co. Name _____ Address _____ No. Copies Requested 5
Mail Charts To Same Address _____ No. Copies Requested 5

Formation Test No. 1 O.K. Misrun Interval Tested From 5200' to 5247' Total Depth 5247'
Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 5125 Ft. Size 6 3/4 Bottom Packer Depth 5200 Ft. Size 6 3/4
Straddle ✓ Conv. B.T. Damaged Yes No Packer Depth _____ Ft. Size _____
Tool Size 5 1/2" Tool Joint Size 4 1/2" P.H. Anchor Length 47 Ft. Size 5 1/2" Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

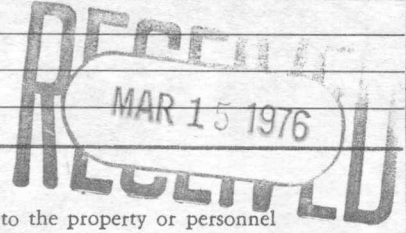
RECORDERS Depth 5203 Ft. Clock No. 10168 Depth 5206 Ft. Clock No. 2899
Top Make Kuster Cap. 4000 No. 3659 Inside _____ Outside _____
Bottom Make Kuster Cap. 4250 No. 1056 Inside _____ Outside _____
Below Straddle: Depth ✓ Rec. No. _____ Clock No. _____ Depth ✓ Ft. Rec. No. _____ Clock No. _____ Inside _____ Outside _____

Time Set Packer 11:56 M
Tool Open I.F.P. From 12:00 M. to 12:30 M. Hr. 30 Min. From (B) 4:30 P.S.I. To (C) 3130 P.S.I.
Tool Closed I.C.I.P. From 12:30 M. to 1:00 M. Hr. 30 Min. (D) 306 P.S.I. To 273 P.S.I.
Tool Open F.F.P. From 1:00 M. to 2:30 M. Hr. 90 Min. From (E) 3635 P.S.I. To (F) 4035 P.S.I.
Tool Closed F.C.I.P. From 2:30 M. to 3:30 M. Hr. 60 Min. (G) 428 P.S.I. To 373 P.S.I.
Initial Hydrostatic Pressure (A) 2730 P.S.I. Final Hydrostatic Pressure (H) 2720 P.S.I. Maximum Temp. 120 °C

BLOW Weak blow increasing to strong blow in 10 mins, on first opening
Strong blow on second opening
Did Well Flow Yes No Recovery Total Ft. 45' Mud

Reversed Out Yes No Mud Type Starch Viscosity 43 Weight 98 Water Loss 164 cc. Chlorides ✓
EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 4 3/4 In. Make WTC Ser. No. 407
Dual Packers Yes Did Packers Hold Yes Did Tool Plug? ✓ Where? _____
DRILLING CONTRACTOR Picknell Drilling Co. Length Drill Pipe 4900 ft. I.D. Drill Pipe 3.76 In. Tool Joint Size 1 1/2 x 4 In.
Length Weight Pipe ✓ ft. I.D. Weight Pipe ✓ In. Tool Joint Size ✓ In. Length Drill Collars 185 ft. I.D. Drill Collars 2.76 In.
Tool Joint Size 42 In. Length D.S.T. Tool 74 ft. including 31' D.C. in anchor

Remarks _____



INVOICE SECTION

Open Hole Test	\$ <u>435.00</u>
Straddle Test	\$ _____
Jars	\$ <u>165</u>
Selective Zone	\$ _____
Safety Joint	\$ _____
Misrun	\$ _____
Evaluation	\$ _____
Packer	\$ _____
Circ. Sub.	\$ _____
Total	\$ <u>600.00</u>

COMPANY TERMS
Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.
All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.
Test Approved By RK Grant Western Representative Frank G. [Signature]
Signature of Customer or his Authorized Representative Operator's Time _____ Hrs.

WESTERN TESTING CO., INC.

Pressure Data

Date 3-12-76 Test Ticket No. 22036
 Recorder No. 3659 Capacity 4000 Location 5203 Ft.
 Clock No. 10168 Elevation 2252 AB Well Temperature 120 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2589</u> P.S.I.	<u>11:56</u> M	
B First Initial Flow Pressure	<u>47</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>31</u> P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>273</u> P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>35</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>35</u> P.S.I.		
G Final Closed-in Pressure	<u>373</u> P.S.I.		
H Final Hydrostatic Mud	2589 <u>2575</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>20</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	<u>47</u>	0	<u>31</u>	0	<u>35</u>	0	<u>35</u>
P 2 5	<u>31</u>	3	<u>69</u>	5	<u>31</u>	3	<u>43</u>
P 3 10	↓	6	<u>110</u>	10		6	<u>61</u>
P 4 15	↓	9	<u>149</u>	15		9	<u>86</u>
P 5 20	↓	12	<u>180</u>	20		12	<u>110</u>
P 6 25	↓	15	<u>206</u>	25		15	<u>129</u>
P 7 30	<u>31</u>	18	<u>227</u>	30		18	<u>151</u>
P 8 35		21	<u>243</u>	35		21	<u>169</u>
P 9 40		24	<u>255</u>	40		24	<u>192</u>
P10 45		27	<u>273</u>	45		27	<u>210</u>
P11 50		30		50		30	<u>229</u>
P12 55		33		55	<u>31</u>	33	<u>245</u>
P13 60		36		60	<u>32</u>	36	<u>259</u>
P14		39		65	<u>33</u>	39	<u>276</u>
P15		42		70	<u>33</u>	42	<u>292</u>
P16		45		75	<u>34</u>	45	<u>308</u>
P17		48		80	<u>34</u>	48	<u>320</u>
P18		51		85	<u>35</u>	51	<u>333</u>
P19		54		90	<u>35</u>	54	<u>347</u>
P20		57				57	361
		60				60	373



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

Company Pickrell Drilling Company Lease & Well No. Seacat-Berryman #A-1
 Elevation 2252 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 22036
 Date 3-12-76 Sec. 32 Twp. 30S Range 21W County Clark State Kansas
 Test Approved by R.K. Grant Western Representative Max Knipe

Formation Test No. 1 O.K. Misrun Interval Tested From 5200' to 5247' Total Depth 5247'
 Size Main Hole 77/8 Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 5125 Ft. Size 6 3/4 Bottom Packer Depth 5200 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 47 Ft. Size 5 1/2 Perf. D.C. Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 5203 Ft. Clock No. 10168 Depth 5206 Ft. Clock No. 6899
 Top Make Kuster Cap. 4000 No. 3659 Inside Outside Bottom Make Kuster Cap. 4250 No. 1056 Inside Outside
 Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 11:56 M
 Tool Open I.F.P. From 12:00 M. to 12:30 M. - Hr. 30 Min. From (B) 47 P.S.I. To (C) 31 P.S.I.
 Tool Closed I.C.I.P. From 12:30 M. to 1:00 M. - Hr. 30 Min (D) 273 P.S.I.
 Tool Open F.F.P. From 1:00 M. to 2:30 M. - Hr. 90 Min. From (E) 35 P.S.I. To (F) 35 P.S.I.
 Tool Closed F.C.I.P. From 2:30 M. to 3:30 M. - Hr. 60 Min. (G) 373 P.S.I.
 Initial Hydrostatic Pressure (A) 2589 P.S.I. Final Hydrostatic Pressure (H) 2575 P.S.I. Maximum Temp. 120

INFORMATION

BLOW Weak blow increasing to strong blow in 10 minutes on first opening. Remained strong throughout second opening.

Did Well Flow - Yes No Recovery Total Ft. 45' mud.

Reversed Out Yes No Mud Type starch Viscosity 43 Weight 9.8 Water Loss 16.4 cc. Chlorides -

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint - Jars: Size 3/4 In. Make WTC Ser. No. 404

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

DRILLING CONTRACTOR Pickrell Drlg. Co. Length Drill Pipe? 4988 Ft. I.D. Drill Pipe 3.76 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 185 Ft. I.D. Drill Collars 2.76 In.
 Tool Joint Size 4 1/2 In. Length D.S.T. Tool 74 Ft. including 31' D.C. in anchor.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 3-12-76 Test Ticket No. 22036
 Recorder No. 3659 Capacity 4000 Location 5203 Ft.
 Clock No. 10168 Elevation 2252 Kelly Bushing Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2589 P.S.I.	Open Tool	11:56 M	
B First Initial Flow Pressure	47 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	31 P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D Initial Closed-in Pressure	273 P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E Second Initial Flow Pressure	35 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	35 P.S.I.			
G Final Closed-in Pressure	373 P.S.I.			
H Final Hydrostatic Mud	2575 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>20</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 <u>0</u>	<u>47</u>	<u>0</u>	<u>31</u>	<u>0</u>	<u>35</u>	<u>0</u>	<u>35</u>
P 2 <u>5</u>	<u>31</u>	<u>3</u>	<u>69</u>	<u>5</u>	<u>31</u>	<u>3</u>	<u>43</u>
P 3 <u>10</u>	<u>31</u>	<u>6</u>	<u>110</u>	<u>10</u>	<u>31</u>	<u>6</u>	<u>61</u>
P 4 <u>15</u>	<u>31</u>	<u>9</u>	<u>149</u>	<u>15</u>	<u>31</u>	<u>9</u>	<u>86</u>
P 5 <u>20</u>	<u>31</u>	<u>12</u>	<u>180</u>	<u>20</u>	<u>31</u>	<u>12</u>	<u>110</u>
P 6 <u>25</u>	<u>31</u>	<u>15</u>	<u>206</u>	<u>25</u>	<u>31</u>	<u>15</u>	<u>129</u>
P 7 <u>30</u>	<u>31</u>	<u>18</u>	<u>227</u>	<u>30</u>	<u>31</u>	<u>18</u>	<u>151</u>
P 8		<u>21</u>	<u>243</u>	<u>35</u>	<u>31</u>	<u>21</u>	<u>169</u>
P 9		<u>24</u>	<u>255</u>	<u>40</u>	<u>31</u>	<u>24</u>	<u>192</u>
P10		<u>27</u>	<u>273</u>	<u>45</u>	<u>31</u>	<u>27</u>	<u>210</u>
P11				<u>50</u>	<u>31</u>	<u>30</u>	<u>229</u>
P12				<u>55</u>	<u>31</u>	<u>33</u>	<u>245</u>
P13				<u>60</u>	<u>32</u>	<u>36</u>	<u>259</u>
P14				<u>65</u>	<u>33</u>	<u>39</u>	<u>278</u>
P15				<u>70</u>	<u>33</u>	<u>42</u>	<u>292</u>
P16				<u>75</u>	<u>34</u>	<u>45</u>	<u>308</u>
P17				<u>80</u>	<u>34</u>	<u>48</u>	<u>320</u>
P18				<u>85</u>	<u>35</u>	<u>51</u>	<u>333</u>
P19				<u>90</u>	<u>35</u>	<u>54</u>	<u>347</u>
P20						<u>57</u>	<u>361</u>
						<u>60</u>	<u>373</u>



INC.

P. O. Box 1599

Wichita, Kansas 67201

Company Pickrell Drilling Company Lease & Well No. Seacat-Berryman #A-1

Elevation 2252 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 22036

Date 3-12-76 Sec. 32 Twp. 30S Range 21W County Clark State Kansas

Test Approved by R.K. Grant Western Representative Max Knipe

Formation Test No. 1 O.K. Misrun Interval Tested From 5200' to 5247' Total Depth 5247'

Size Main Hole 77/64 Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No

Top Packer Depth 5125 Ft. Size 6 3/4 Bottom Packer Depth 5200 Ft. Size 6 3/4

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

Tool Joint Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 47 Ft. Size 5 1/2 Perf. D.C. Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 5203 Ft. Clock No. 10168 Depth 5206 Ft. Clock No. 6899

Top Make Kuster Cap. 4000 No. 3659 Inside Outside Bottom Make Kuster Cap. 4250 No. 1056 Inside Outside

Flow Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 11:56 M

Well Open I.F.P. From 12:00 M. to 12:30 M. - Hr. 30 Min. From (B) 47 P.S.I. To (C) 31 P.S.I.

Well Closed I.C.I.P. From 12:30 M. to 1:00 M. - Hr. 30 Min (D) 273 P.S.I.

Well Open F.F.P. From 1:00 M. to 2:30 M. - Hr. 90 Min. From (E) 35 P.S.I. To (F) 35 P.S.I.

Well Closed F.C.I.P. From 2:30 M. to 3:30 M. - Hr. 60 Min. (G) 373 P.S.I.

Initial Hydrostatic Pressure (A) 2589 P.S.I. Final Hydrostatic Pressure (H) 2575 P.S.I. Maximum Temp. 120

INFORMATION

Flow Weak blow increasing to strong blow in 10 minutes on first opening. Remained strong throughout second opening.

Did Well Flow Yes No Recovery Total Ft. 45' mud.

Reversed Out Yes No Mud Type starch Viscosity 43 Weight 9.8 Water Loss 16.4 cc. Chlorides -

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint - Jars: Size 4 3/4 In. Make WTC Ser. No. 404

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

DRILLING CONTRACTOR Pickrell Drlg. Co. Length Drill Pipe? 4988 Ft. I.D. Drill Pipe 3.76 In. Tool Joint Size 4 1/2 In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 185 Ft. I.D. Drill Collars 2.76 In.

Tool Joint Size 4 1/2 In. Length D.S.T. Tool 74 Ft. including 31' D.C. in anchor.

Remarks:

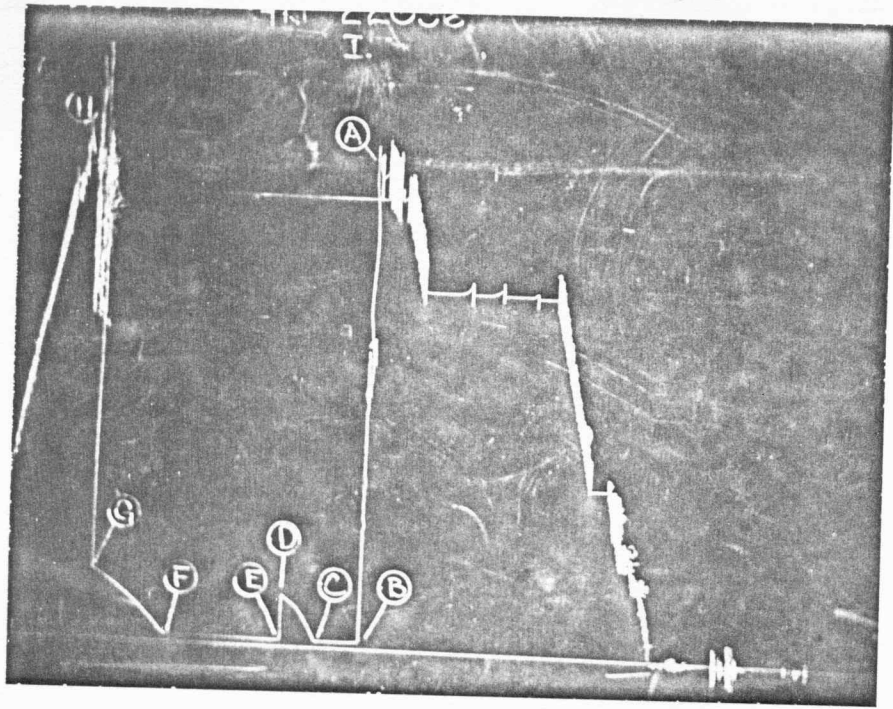
WESTERN TESTING CO., INC.
Pressure Data

Date 3-12-76 Test Ticket No. 22036
 Recorder No. 3659 Capacity 4000 Location 5203 Ft.
 Clock No. 10168 Elevation 2252 Kelly Bushing Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2589 P.S.I.	Open Tool	11:56 M	
B First Initial Flow Pressure	47 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	31 P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D Initial Closed-in Pressure	273 P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E Second Initial Flow Pressure	35 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	35 P.S.I.			
G Final Closed-in Pressure	373 P.S.I.			
H Final Hydrostatic Mud	2575 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In		
Breakdown: <u>6</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>20</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	47	0	31	0	35	0	35
P 2	5	31	3	69	5	31	3	43
P 3	10	31	6	110	10	31	6	61
P 4	15	31	9	149	15	31	9	86
P 5	20	31	12	180	20	31	12	110
P 6	25	31	15	206	25	31	15	129
P 7	30	31	18	227	30	31	18	151
P 8			21	243	35	31	21	169
P 9			24	255	40	31	24	192
P10			27	273	45	31	27	210
P11					50	31	30	229
P12					55	31	33	245
P13					60	32	36	259
P14					65	33	39	278
P15					70	33	42	292
P16					75	34	45	308
P17					80	34	48	320
P18					85	35	51	333
P19					90	35	54	347
P20							57	361
							60	373





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 22037

P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

Formation Miss Elevation 2252KB Eff. Pay Ft.

District Great Bend Date 3-13-76 Customer Order No.
COMPANY NAME Pickrell Drilling Company, Linn Bldg. 110 N. Market Suite 200
ADDRESS 905 Fourth National Bldg. Wichita, Kans. 67202
LEASE AND WELL NO. Seacat Berryman "A1" COUNTY Clark STATE Kans. Sec. 32 Twp. 30 Rge. 21
Mail Inv. To Jane Co. Name Address No. Copies Requested 5
Mail Charts To Jane Address No. Copies Requested 5

Formation Test No. 2 O.K. Misrun Interval Tested From 5247' to 5267' Total Depth 5267'
Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 5242 Ft. Size 6 3/4 Bottom Packer Depth 5247 Ft. Size 6 3/4
Straddle Conv. B.T. Damaged Yes No Packer Depth Ft. Size
Tool Size 5 1/2" Tool Joint Size 4 1/2 F.H. Anchor Length 20 Ft. Size 5 1/2" Surface Choke Size 3 1/4 In. Bottom Choke Size 3 1/4 In.

RECORDERS Depth 5259 Ft. Clock No. 10168 Inside
Top Make Kuster Cap. 4000 No. 3659 Outside
Below Straddle: Depth Rec. No. Clock No. Inside
Depth Ft. Rec. No. Clock No. Outside

Time Set Packer 5:54 M
Tool Open I.F.P. From 6:00 M. to 6:30 M. Hr. 30 Min. From (B) 30 37 P.S.I. To (C) 30 22 P.S.I.
Tool Closed I.C.I.P. From 6:30 M. to 7:30 M. Hr. 60 Min. (D) 204 200 P.S.I.
Tool Open F.F.P. From 7:30 M. to 9:00 M. Hr. 90 Min. From (E) 26 27 P.S.I. To (F) 30 22 P.S.I.
Tool Closed F.C.I.P. From 9:00 M. to 10:30 M. Hr. 90 Min. (G) 285 284 P.S.I.
Initial Hydrostatic Pressure (A) 2746 P.S.I. Final Hydrostatic Pressure (H) 2730 P.S.I. Maximum Temp. 130°

Fair 1 1/2" blow throughout test INFORMATION

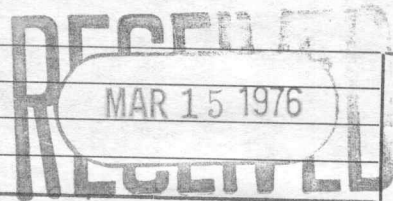
Did Well Flow Yes No Recovery Total Ft. 30' Mud

Reversed Out Yes No Mud Type Starch Viscosity 52 Weight 10' Water Loss 11 1/2 cc. Chlorides

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 4 3/4 In. Make WTC Ser. No. 404

Dual Packers Yes Did Packers Hold? Yes Did Tool Plug? Where?
DRILLING CONTRACTOR Pickrell Drilling Co. Length Drill Pipe 5035 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 x 4 In.
Length Weight Pipe ft. I.D. Weight Pipe In. Tool Joint Size In. Length Drill Collars 185 ft. I.D. Drill Collars 2.25 In.
Tool Joint Size 4 1/2 In. Length D.S.T. Tool 47 ft.

Remarks



INVOICE SECTION

Open Hole Test	\$ <u>435.00</u>
Straddle Test	\$ <u> </u>
Jars	\$ <u>165.00</u>
Selective Zone	\$ <u> </u>
Safety Joint	\$ <u> </u>
Misrun	\$ <u> </u>
Evaluation	\$ <u> </u>
Packer	\$ <u> </u>
Circ. Sub.	\$ <u> </u>
Total	\$ <u>600.00</u>

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made. All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By RR Grant Signature of Customer or his Authorized Representative
Western Representative Max Krize
Operator's Time Hr.

WESTERN TESTING CO., INC.

Pressure Data

Date 3-13-76 Test Ticket No. 22037
 Recorder No. 3659 Capacity 4000 Location 5259 Ft.
 Clock No. 10168 Elevation 2252 AB Well Temperature 120 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2779</u> P.S.I.	<u>5:56</u> M	
B First Initial Flow Pressure	<u>37</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>22</u> P.S.I.	<u>60</u> Mins.	<u>57</u> Mins.
D Initial Closed-in Pressure	<u>200</u> P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>27</u> P.S.I.	<u>90</u> Mins.	<u>87</u> Mins.
F Second Final Flow Pressure	<u>22</u> P.S.I.		
G Final Closed-in Pressure	<u>284</u> P.S.I.		
H Final Hydrostatic Mud	<u>2769</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>19</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>18</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>29</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>37</u>	0	<u>22</u>	0	<u>27</u>	0	<u>22</u>
P 2 5	<u>22</u>	3	<u>27</u>	5	<u>20</u>	3	<u>31</u>
P 3 10		6	<u>37</u>	10	<u>18</u>	6	<u>39</u>
P 4 15		9	<u>45</u>	15		9	<u>47</u>
P 5 20		12	<u>53</u>	20		12	<u>55</u>
P 6 25		15	<u>63</u>	25		15	<u>65</u>
P 7 30	<u>22</u>	18	<u>73</u>	30		18	<u>73</u>
P 8 35		21	<u>82</u>	35		21	<u>82</u>
P 9 40	<u>63</u> <u>210</u>	24	<u>92</u>	40		24	<u>92</u>
P10 45	<u>66</u> <u>220</u>	27	<u>102</u>	45		27	<u>100</u>
P11 50	<u>69</u> <u>231</u>	30	<u>112</u>	50	<u>18</u>	30	<u>108</u>
P12 55	<u>72</u> <u>239</u>	33	<u>122</u>	55	<u>19</u>	33	<u>120</u>
P13 60	<u>75</u> <u>249</u>	36	<u>133</u>	60	<u>19</u>	36	<u>129</u>
P14	<u>78</u> <u>257</u>	39	<u>141</u>	65	<u>20</u>	39	<u>137</u>
P15	<u>81</u> <u>265</u>	42	<u>153</u>	70	<u>20</u>	42	<u>147</u>
P16	<u>84</u> <u>276</u>	45	<u>163</u>	75	<u>21</u>	45	<u>155</u>
P17	<u>87</u> <u>284</u>	48	<u>173</u>	80	<u>21</u>	48	<u>165</u>
P18	<u>90</u>	51	<u>184</u>	85	<u>22</u>	51	<u>174</u>
P19		54	<u>192</u>	90	<u>22</u>	54	<u>184</u>
P20		57	<u>200</u>			57	<u>193</u>
		<u>60</u>				60	<u>202</u>



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

Company Pickrell Drilling Company Lease & Well No. Seacat-Berryman #A-1
 Elevation 2252 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 22037
 Date 3-13-76 Sec. 32 Twp. 30S Range 21W County Clark State Kansas
 Test Approved by R.K. Grant Western Representative Max Knipe

Formation Test No. 2 O.K. Misrun Interval Tested From 5247' to 5267' Total Depth 5267'
 Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 5242 Ft. Size 6 3/4 Bottom Packer Depth 5247 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 20 Perf. Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 5259 Ft. Clock No. 10168 Depth 5262 Ft. Clock No. 6899
 Top Make Kuster Cap. 4000 No. 3659 ~~Outside~~ Inside Bottom Make Kuster Cap. 4250 No. 1056 ~~Inside~~ Outside
 Below Straddle: Depth - Rec. No. - Clock No. - ~~Outside~~ Inside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside

Time Set Packer 5:56 M
 Tool Open I.F.P. From 6:00 M. to 6:30 M. - Hr. 30 Min. From (B) 37 P.S.I. To (C) 22 P.S.I.
 Tool Closed I.C.I.P. From 6:30 M. to 7:30 M. - Hr. 60 Min (D) 200 P.S.I.
 Tool Open F.F.P. From 7:30 M. to 9:00 M. - Hr. 90 Min. From (E) 27 P.S.I. To (F) 22 P.S.I.
 Tool Closed F.C.I.P. From 9:00 M. to 10:30 M. - Hr. 90 Min. (G) 284 P.S.I.
 Initial Hydrostatic Pressure (A) 2779 P.S.I. Final Hydrostatic Pressure (H) 2769 P.S.I. Maximum Temp. 120

INFORMATION

BLOW Fair 1 1/2" blow throughout test.

Did Well Flow - Yes No Recovery Total Ft. 30' mud.

Reversed Out - Yes No Mud Type starch Viscosity 56 Weight 10.1 Water Loss 11.2 cc. Chlorides -

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint - Jars: Size 4 3/4 In. Make WTC Ser. No. 404

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

DRILLING CONTRACTOR Pickrell Drlg. Co. Length Drill Pipe? 5035 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 185 Ft. I.D. Drill Collars 2.25 In.

Tool Joint Size 4 1/2 In. Length D.S.T. Tool 47 Ft.

Remarks:



INC.

P. O. Box 1599

Wichita, Kansas 67201

Company Pickrell Drilling Company Lease & Well No. Seacat-Berryman #A-1

Elevation 2252 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 22037

Date 3-13-76 Sec. 32 Twp. 30S Range 21W County Clark State Kansas

Test Approved by R.K. Grant Western Representative Max Knipe

Formation Test No. 2 O.K. Misrun Interval Tested From 5247' to 5267' Total Depth 5267'

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

Top Packer Depth 5242 Ft. Size 6 3/4 Bottom Packer Depth 5247 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 20 Perf. Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 5259 Ft. Clock No. 10168 Depth 5262 Ft. Clock No. 6899

Top Make Kuster Cap. 4000 No. 3659 ~~Inside~~ Outside Bottom Make Kuster Cap. 4250 No. 1056 ~~Inside~~ Outside

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

Time Set Packer 5:56 M

Tool Open I.F.P. From 6:00 M. to 6:30 M. - Hr. 30 Min. From (B) 37 P.S.I. To (C) 22 P.S.I.

Tool Closed I.C.I.P. From 6:30 M. to 7:30 M. - Hr. 60 Min (D) 200 P.S.I.

Tool Open F.F.P. From 7:30 M. to 9:00 M. - Hr. 90 Min. From (E) 27 P.S.I. To (F) 22 P.S.I.

Tool Closed F.C.I.P. From 9:00 M. to 10:30 M. - Hr. 90 Min. (G) 284 P.S.I.

Initial Hydrostatic Pressure (A) 2779 P.S.I. Final Hydrostatic Pressure (H) 2769 P.S.I. Maximum Temp. 120

INFORMATION

BLOW Fair 1 1/2" blow throughout test.

Did Well Flow Yes No Recovery Total Ft. 30' mud.

Reversed Out Yes No Mud Type starch Viscosity 56 Weight 10.1 Water Loss 11.2 cc. Chlorides -

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint - Jars: Size 4 3/4 In. Make WTC Ser. No. 404

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

DRILLING CONTRACTOR Pickrell Drlg. Co. Length Drill Pipe? 5035 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 185 Ft. I.D. Drill Collar 2.25 In.

Tool Joint Size 4 1/2 In. Length D.S.T. Tool 47 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 3-13-76 Test Ticket No. 22037
 Recorder No. 3659 Capacity 4000 Location 5259 Ft.
 Clock No. 10168 Elevation 2252 Kelly Bushing Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2779	P.S.I.	5:56	M
B First Initial Flow Pressure	37	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	22	P.S.I.	60	Mins. 57 Mins.
D Initial Closed-in Pressure	200	P.S.I.	90	Mins. 90 Mins.
E Second Initial Flow Pressure	27	P.S.I.	90	Mins. 87 Mins.
F Second Final Flow Pressure	22	P.S.I.		
G Final Closed-in Pressure	284	P.S.I.		
H Final Hydrostatic Mud	2769	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>19</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>29</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 <u>0</u>	<u>37</u>	<u>0</u>	<u>22</u>	<u>0</u>	<u>27</u>	<u>0</u>	<u>22</u>
P 2 <u>5</u>	<u>22</u>	<u>3</u>	<u>27</u>	<u>5</u>	<u>20</u>	<u>3</u>	<u>31</u>
P 3 <u>10</u>	<u>22</u>	<u>6</u>	<u>37</u>	<u>10</u>	<u>18</u>	<u>6</u>	<u>39</u>
P 4 <u>15</u>	<u>22</u>	<u>9</u>	<u>45</u>	<u>15</u>	<u>18</u>	<u>9</u>	<u>47</u>
P 5 <u>20</u>	<u>22</u>	<u>12</u>	<u>53</u>	<u>20</u>	<u>18</u>	<u>12</u>	<u>55</u>
P 6 <u>25</u>	<u>22</u>	<u>15</u>	<u>63</u>	<u>25</u>	<u>18</u>	<u>15</u>	<u>65</u>
P 7 <u>30</u>	<u>22</u>	<u>18</u>	<u>73</u>	<u>30</u>	<u>18</u>	<u>18</u>	<u>73</u>
P 8		<u>21</u>	<u>82</u>	<u>35</u>	<u>18</u>	<u>21</u>	<u>82</u>
P 9		<u>24</u>	<u>92</u>	<u>40</u>	<u>18</u>	<u>24</u>	<u>92</u>
P10		<u>27</u>	<u>102</u>	<u>45</u>	<u>18</u>	<u>27</u>	<u>100</u>
P11		<u>30</u>	<u>112</u>	<u>50</u>	<u>18</u>	<u>30</u>	<u>108</u>
P12		<u>33</u>	<u>122</u>	<u>55</u>	<u>19</u>	<u>33</u>	<u>120</u>
P13		<u>36</u>	<u>133</u>	<u>60</u>	<u>19</u>	<u>36</u>	<u>129</u>
P14		<u>39</u>	<u>141</u>	<u>65</u>	<u>20</u>	<u>39</u>	<u>137</u>
P15		<u>42</u>	<u>153</u>	<u>70</u>	<u>20</u>	<u>42</u>	<u>147</u>
P16		<u>45</u>	<u>163</u>	<u>75</u>	<u>21</u>	<u>45</u>	<u>155</u>
P17		<u>48</u>	<u>173</u>	<u>80</u>	<u>21</u>	<u>48</u>	<u>165</u>
P18		<u>51</u>	<u>184</u>	<u>85</u>	<u>22</u>	<u>51</u>	<u>176</u>
P19		<u>54</u>	<u>192</u>	<u>90</u>	<u>22</u>	<u>54</u>	<u>184</u>
P20		<u>57</u>	<u>200</u>			<u>57</u>	<u>193</u>

WESTERN TESTING CO., INC.
Pressure Data

Date 3-13-76 Test Ticket No. 22037
 Recorder No. 3659 Capacity 4000 Location 5259 Ft.
 Clock No. 10168 Elevation 2252 Kelly Bushing Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2779</u> P.S.I.	Open Tool	<u>5:56</u> M	
B First Initial Flow Pressure	<u>37</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>22</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
D Initial Closed-in Pressure	<u>200</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>27</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>87</u> Mins.
F Second Final Flow Pressure	<u>22</u> P.S.I.			
G Final Closed-in Pressure	<u>284</u> P.S.I.			
H Final Hydrostatic Mud	<u>2769</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>6</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.	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1	<u>37</u>	<u>0</u>	<u>22</u>	<u>0</u>	<u>27</u>	<u>0</u>	<u>22</u>	<u>0</u>
P 2	<u>22</u>	<u>3</u>	<u>27</u>	<u>3</u>	<u>20</u>	<u>3</u>	<u>31</u>	<u>3</u>
P 3	<u>22</u>	<u>6</u>	<u>37</u>	<u>6</u>	<u>18</u>	<u>6</u>	<u>39</u>	<u>6</u>
P 4	<u>22</u>	<u>9</u>	<u>45</u>	<u>9</u>	<u>18</u>	<u>9</u>	<u>47</u>	<u>9</u>
P 5	<u>22</u>	<u>12</u>	<u>53</u>	<u>12</u>	<u>18</u>	<u>12</u>	<u>55</u>	<u>12</u>
P 6	<u>22</u>	<u>15</u>	<u>63</u>	<u>15</u>	<u>18</u>	<u>15</u>	<u>65</u>	<u>15</u>
P 7	<u>22</u>	<u>18</u>	<u>73</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>73</u>	<u>18</u>
P 8		<u>21</u>	<u>82</u>	<u>21</u>	<u>18</u>	<u>21</u>	<u>82</u>	<u>21</u>
P 9		<u>24</u>	<u>92</u>	<u>24</u>	<u>18</u>	<u>24</u>	<u>92</u>	<u>24</u>
P10		<u>27</u>	<u>102</u>	<u>27</u>	<u>18</u>	<u>27</u>	<u>102</u>	<u>27</u>
P11		<u>30</u>	<u>112</u>	<u>30</u>	<u>18</u>	<u>30</u>	<u>112</u>	<u>30</u>
P12		<u>33</u>	<u>122</u>	<u>33</u>	<u>19</u>	<u>33</u>	<u>122</u>	<u>33</u>
P13		<u>36</u>	<u>133</u>	<u>36</u>	<u>19</u>	<u>36</u>	<u>133</u>	<u>36</u>
P14		<u>39</u>	<u>141</u>	<u>39</u>	<u>20</u>	<u>39</u>	<u>141</u>	<u>39</u>
P15		<u>42</u>	<u>153</u>	<u>42</u>	<u>20</u>	<u>42</u>	<u>153</u>	<u>42</u>
P16		<u>45</u>	<u>163</u>	<u>45</u>	<u>21</u>	<u>45</u>	<u>163</u>	<u>45</u>
P17		<u>48</u>	<u>173</u>	<u>48</u>	<u>21</u>	<u>48</u>	<u>173</u>	<u>48</u>
P18		<u>51</u>	<u>184</u>	<u>51</u>	<u>22</u>	<u>51</u>	<u>184</u>	<u>51</u>
P19		<u>54</u>	<u>192</u>	<u>54</u>	<u>22</u>	<u>54</u>	<u>192</u>	<u>54</u>
P20		<u>57</u>	<u>200</u>	<u>57</u>		<u>57</u>	<u>200</u>	<u>57</u>

