

SUPERIOR TESTERS, INC.

433 SOUTH WESTVIEW, DERBY, KANSAS

Date 11/16/71 Ticket No. 2390 Elevation 1615 KB

Total Depth 3974 Tested From 3061 To 3974 Formation Tested Kansas City

Blow: Good steady blow through out test

Mud Wt. 9.6 Viscosity 40 Bottom Hole Temp 115

Size Bottom Choke 1/2" Size Top Choke 1/2"

Size Drill Pipe 4 1/2" KH Size Hole 7 7/8" Length Air Chamber - Ft.

Initial Shut in Time 30 Min Tool Open 1 Hr 15 Min Final Shut in Time 60 Min

Recovery 1320' of gas in drill pipe,

40' of slightly oil & gas cut mud,

60' of heavy oil & gas cut mud, 60'

of oil & gas cut mud, 60' oil cut

muddy water

Office Corrected Pressure Reading

Initial Shut in Pressure 1553 Lbs

Initial Flow Pressure 47 Lbs

Final Flow Pressure 102 Lbs

Final Shut in Pressure 1529 Lbs

Initial Hydrostatic Pressure 2127 Lbs

Final Hydrostatic Pressure 2112 Lbs

Remarks _____

Witnessed By Charles R. King

Tool Operator R. L. Budig

Location 111, NW, SW 34-30-37N

Name of Lease Ruth

Well No. 1

Test No. 1

Company Alper Resources, Inc.

County Kingman

State Kansas

#2390

D.S.T.#1





Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Alpar Resources Inc. Lease & Well No. Ruth #1

Elevation 1608 Ground Level Formation Kansas City Effective Pay _____ Ft. Ticket No. 15679

Date 11-17-71 Sec. 34 Twp. 30S Range 7W County Kingman State Kansas

Test Approved by Charles R. King Western Representative Norman Allen

Formation Test No. 2 O.K. ☒ Misrun _____ Interval Tested From 3987' to 4006' Total Depth 4006'

Size Main Hole 7 7/8" Rat Hole _____ Conv. _____ B.T. _____ Damaged _____ Yes _____ No _____ Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No _____

Packer Depth _____ Ft. Size _____ Packer Depth 3987 Ft. Size 6 3/4"

Straddle _____ Yes _____ No ☒ Conv. _____ B.T. _____ Damaged _____ Yes _____ No _____

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 19 Ft. Size 5 1/2" O.D.

RECORDERS	Depth	Ft.	Clock No.	Depth	Ft.	Clock No.
	<u>3998</u>		<u>8474</u>	<u>4001</u>		<u>10434</u>
Top Make <u>Kuster</u>	Cap. <u>4000</u>	No. <u>3351</u>	Inside <u>Outside</u>	Bottom Make <u>Kuster</u>	Cap. <u>4150</u>	No. <u>2606</u>
Below Straddle: Depth _____	Clock No. _____	Inside <u>Outside</u>	Depth _____	Ft. _____	Clock No. _____	Inside <u>Outside</u>
Top Make _____	Cap. _____	No. _____	Bottom Make _____	Cap. _____	No. _____	Inside <u>Outside</u>

Time Set Packer 12:43 A_M

Tool Open I.F.P. From 12:45 M. to 1:00A M. Hr. 15 Min. From (B) 20 P.S.I. To (C) 24 P.S.I.

Tool Closed I.C.I.P. From 1:00 M. to 1:30A M. Hr. 30 Min. (D) 1380 P.S.I.

Tool Open F.F.P. From 1:30 M. to 2:15A M. Hr. 45 Min. From (E) 34 P.S.I. To (F) 46 P.S.I.

Tool Closed F.C.I.P. From 2:15 M. to 3:15A M. Hr. 60 Min. (G) 1522 P.S.I.

Initial Hydrostatic Pressure (A) 2088 P.S.I. Final Hydrostatic Pressure (H) 2076 P.S.I.

SURFACE	Size Choke	In.	Max. Press. P.S.I.	Time	Description of Flow
INFORMATION	<u>3/4</u>			M.	
				M.	
				M.	

BLOW Fair thru out test Bottom Choke Size 3/4 In.

Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 1620 feet gas in pipe

120 feet slightly oil and gas cut mud

Reversed Out _____ Yes ☒ No _____ Mud Type Starch Viscosity 42 Weight 9.8 Water Loss 12 cc. Maximum Temp. 123 °F

Type Circ. Sub. Pin Did Tool Plug? _____ Jars: Size _____ Make _____ Ser. No. _____

EXTRA EQUIPMENT: Dual Packers No Safety Joint No Did Packer Hold? Yes Where? _____

Length Drill Pipe 2992 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 740 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars 240 ft.

I. D. Drill Collars 2 1/4 in. Length D.S.T. Tool 34 ft.

Remarks Fluid simple chekced 5% -80% mud solids 15% water, filtrate

WESTERN TESTING CO., INC.

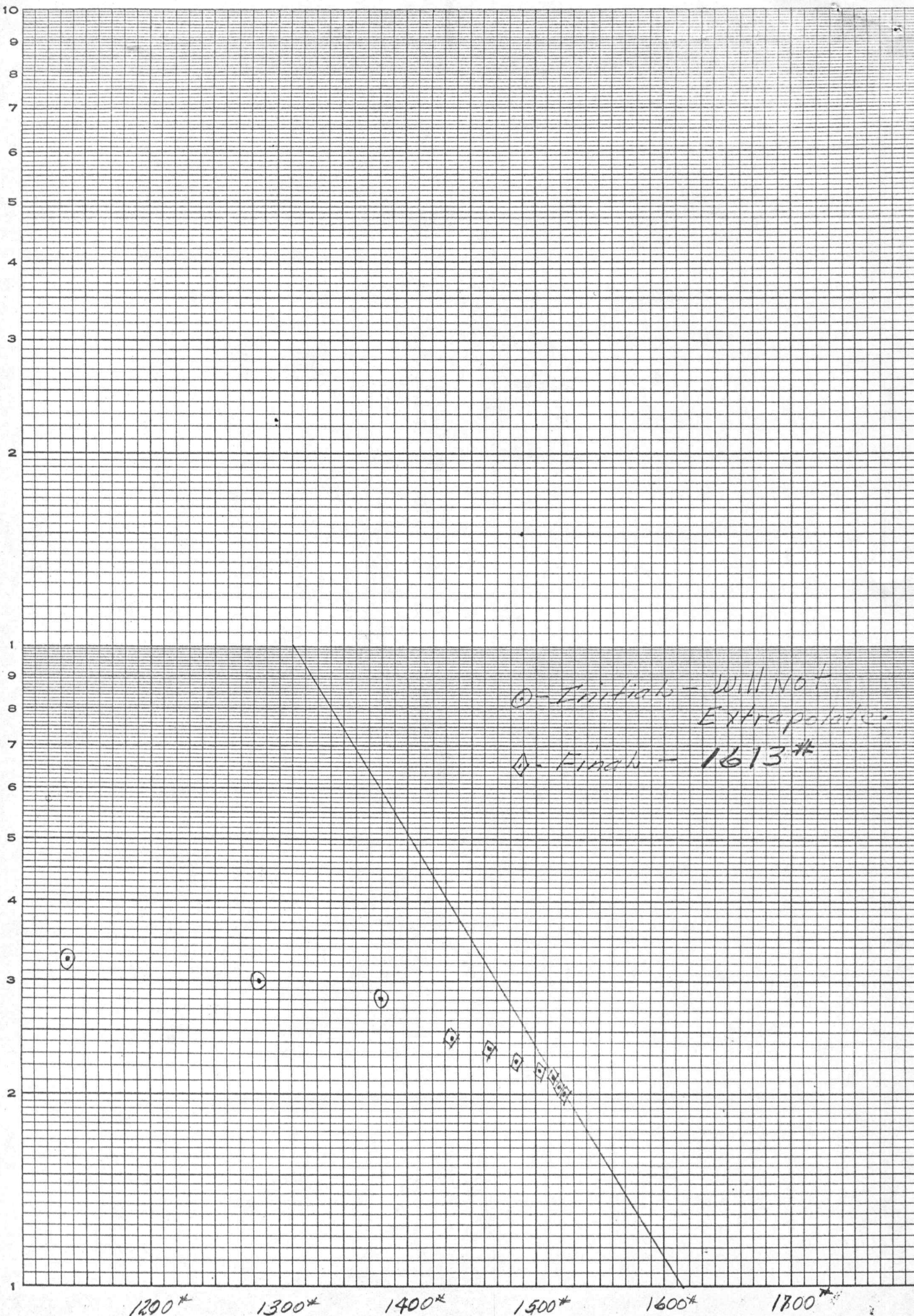
Pressure Data

Date 11-17-71 Test Ticket No. 15679
 Recorder No. 3351 Capacity 4000 Location 3998 Ft.
 Clock No. 8474 Elevation 1608 Ground Level Well Temperature 123 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2088</u> P.S.I.	<u>12:43</u> A	
B First Initial Flow Pressure	<u>20</u> P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>24</u> P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>1380</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>34</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>46</u> P.S.I.		
G Final Closed-in Pressure	<u>1522</u> P.S.I.		
H Final Hydrostatic Mud	<u>2076</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>9</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 _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>20</u>	<u>0</u>	<u>24</u>	<u>0</u>	<u>34</u>	<u>0</u>	<u>46</u>
P 2 <u>5</u>	<u>22</u>	<u>3</u>	<u>52</u>	<u>5</u>	<u>34</u>	<u>3</u>	<u>100</u>
P 3 <u>10</u>	<u>23</u>	<u>6</u>	<u>104</u>	<u>10</u>	<u>34</u>	<u>6</u>	<u>160</u>
P 4 <u>15</u>	<u>24</u>	<u>9</u>	<u>182</u>	<u>15</u>	<u>36</u>	<u>9</u>	<u>228</u>
P 5 _____		<u>12</u>	<u>277</u>	<u>20</u>	<u>39</u>	<u>12</u>	<u>304</u>
P 6 _____		<u>15</u>	<u>395</u>	<u>25</u>	<u>41</u>	<u>15</u>	<u>390</u>
P 7 _____		<u>18</u>	<u>541</u>	<u>30</u>	<u>42</u>	<u>18</u>	<u>516</u>
P 8 _____		<u>21</u>	<u>709</u>	<u>35</u>	<u>43</u>	<u>21</u>	<u>628</u>
P 9 _____		<u>24</u>	<u>948</u>	<u>40</u>	<u>44</u>	<u>24</u>	<u>776</u>
P10 _____		<u>27</u>	<u>1136</u>	<u>45</u>	<u>46</u>	<u>27</u>	<u>946</u>
P11 _____		<u>30</u>	<u>1285</u>			<u>30</u>	<u>1092</u>
P12 _____		<u>33</u>	<u>1380</u>			<u>33</u>	<u>1214</u>
P13 _____						<u>36</u>	<u>1316</u>
P14 _____						<u>39</u>	<u>1385</u>
P15 _____						<u>42</u>	<u>1435</u>
P16 _____						<u>45</u>	<u>1466</u>
P17 _____						<u>48</u>	<u>1496</u>
P18 _____						<u>51</u>	<u>1504</u>
P19 _____						<u>54</u>	<u>1514</u>
P20 _____						<u>57</u>	<u>1518</u>
						<u>60</u>	<u>1522</u>





WESTERN TESTING CO., INC.

GREAT BEND, KANSAS 67530

(316) 793-7903

FIELD EVALUATIONS

Ticket No. 15679
Date 11-17-71To Alpar Resources Inc.

These calculations are based upon information furnished by you and taken from drill stem test pressure charts and are furnished for your information. In furnishing such calculations and evaluations, Western Testing Co., Inc. is merely expressing its opinion. You agree that The Testing Company makes no warranty as to the accuracy of such calculations or opinions and the Testing Company shall not be liable for any loss or damage, whether due to negligence or otherwise in connection with such calculations and opinions.

We Give Below Results of Drill Stem Evaluation

Lease Ruth #1 Sec. 34 Twp. 30S Rge. 7W
County Kingman Test Interval 3987' - 4006'

FINAL

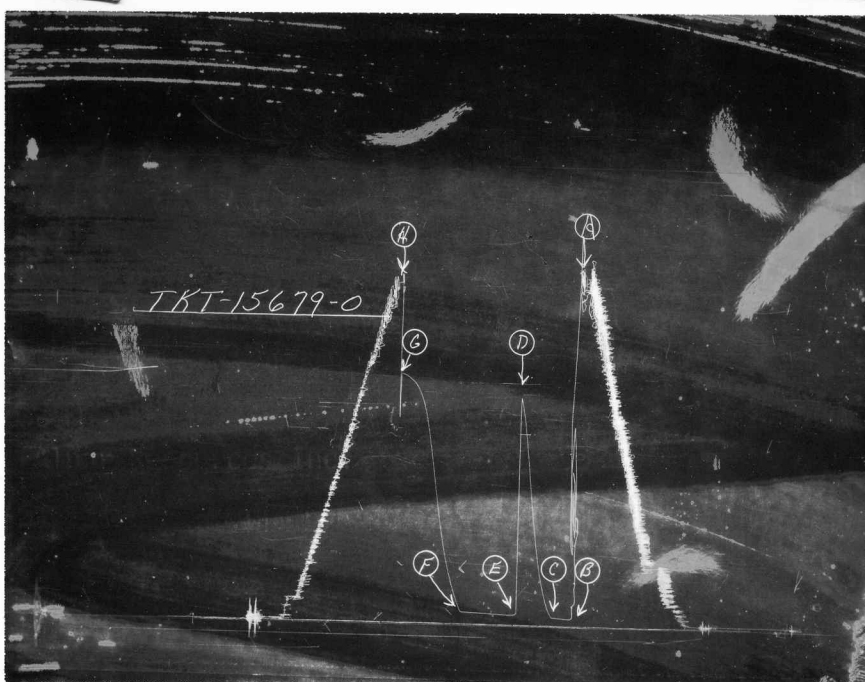
P.S.I. Slope Cycle
$$M = \frac{P_{isi} - P_{fsi}}{\log \frac{T + t}{t}}$$
 303

Damage Ratio
$$DR = .183 \frac{P_s - P_f}{M}$$
 0.0

Production
$$Q = \frac{1440 R}{t}$$
 0.73 Bbls./Hr.
17.52 Bbls./Day

Effective Pay
$$K_1 = \frac{Kh}{hl}$$
 _____ Md. Ft.
8.0 Average Permeability

Theoretical Potential With Damage Removed
$$Q_1 = Q DR$$
 17.52 Bbls./Day



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2091	2088
(B) First Initial Flow Pressure	30	20
(C) First Final Flow Pressure	35	24
(D) Initial Closed-in Pressure	1396	1380
(E) Second Initial Flow Pressure	50	34
(F) Second Final Flow Pressure	60	46
(G) Final Closed-in Pressure	1525	1522
(H) Final Hydrostatic Mud	2081	2076

SUPERIOR TESTERS, INC.

433 SOUTH WESTVIEW, DERBY, KANSAS

Date 11/19/71 Ticket No. 2391 Elevation 1615 KB

Total Depth 4380 Tested From 4340 To 4380 Formation Tested Mississippi

Blow Strong blow through out test

Mud Wt. 9.5 Viscosity 45 Bottom Hole Temp 118

Size Bottom Choke 1/2" Size Top Choke 1/2"

Size Drill Pipe 4 1/2" XH Size Hole 7 7/8" Length Air Chamber - Ft.

Initial Shut in Time 45 Min Tool Open 1 Hr 45 Min Final Shut in Time 60 Min

Recovery 60' of mud (gassy), 60' of
very heavy oil & gas cut mud,
680' of clean gassy oil (36 gravity)
550' of salt water with a slight
show of oil

Office Corrected Pressure Reading

Initial Shut in Pressure 1537 Lbs

Initial Flow Pressure 110 Lbs

Final Flow Pressure 553 Lbs

Final Shut in Pressure 1529 Lbs

Initial Hydrostatic Pressure 2350 Lbs

Final Hydrostatic Pressure 2338 Lbs

Remarks Gas to surface in 45 minutes. 4710 on open, 4960 in 5 minutes,
31,100 in 15 minutes, 26,600 in 25 minutes, 9,450 in 35 minutes,
12,000 in 45 minutes, 11,600 in 55 minutes, 11,600 in 60 minutes.

Witnessed By Charles R. King

Tool Operator R. L. Budig

Location NE 1/4, SW 3/4, S30-7E

Name of Lease Ruth

Well No. 1

Test No. 3

County Kingman

Company Alper Resources, Inc.

State Kansas

#2391

D.S.T. #3

