



WESTERN TESTING CO., INC.

P O BOX 1599 - WICHITA, KANSAS 67201

WELL REPORT NO

UNIT NO

10406

DISTRICT

DATE 8/2/81

Cougar Petroleum Corporation
1675 Broadway Suite 1770
Denver, Colorado 80202

FOR CUSTOMER'S USE ONLY

REGISTER NO

VOUCHER NO

TERMS APPROVED

PRICE APPROVED

CALCULATIONS CHECKED

ADJUSTMENTS

ACCOUNTING DISTRIBUTION

AUDITED

FINAL APPROVAL

YOUR ORDER NO.	OWNER	CONTRACTOR			
WELL NO	FARM	COUNTY	SECTION	TWP	RANGE
#1	Booher	Sumner County, Kansas	1	31S	4W

One drill stem test from 4471' to 4573' (Test 1)	\$ 700.00
Jars	300.00
Safety Joint	65.00
Mileage: Sixty-three miles @ .75¢ per mile	47.25
Open hole testing insurance	50.00
Total	<u>\$1,162.25</u>

POSTED

DISCOUNT
\$11.62

1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID
BY THE 20TH OF THE FOLLOWING MONTH

PLEASE INCLUDE OUR INVOICE NUMBER
WITH YOUR REMITTANCE

INVOICE NUMBER
10406

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201

OPEN HOLE TESTING INSURANCE AVAILABLE

Details of Policy:

\$25,000 limit per hole

\$ 2,000 Fishing limit

\$ 2,500 Deductible per hole

Operator pays the deductible.

Deductible applies to total loss including tool and fishing with limits as above.

Premium per hole — \$40.00

I want the open hole insurance.

I do not want the open hole insurance.

Legal Description of Location

1-365 4, W

Henny Kirkendall
Salesman Signature

Cyprus Petro
Company Name

8-2-81

Date

[Signature]
Customer Signature



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 10406

OK

P. O. BOX 1599 WICHITA, KANSAS 67201 PHONE (316) 262-5861

Elevation 1450 Kb Formation Semp Eff. Pay Ft.

District Augusta Date 8-2-61 Customer Order No.

COMPANY NAME Cougar Petro Inc, Cougar Petroleum Corp.

ADDRESS 1675 Broadway Suite 1770 Denver Colo. 80202

LEASE AND WELL NO. Booher #1 COUNTY Sumner STATE Kb Sec. 1 Twp 31S Rge 4W

Mail Invoice To Same Booher #1 No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 4471 ft. to 4573 ft. Total Depth 4573 ft.

Packer Depth 4471 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4466 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4476 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 4480 ft. Recorder Number 10979 Cap. 4100

Below Straddle Recorder Depth Recorder Number Cap.

Drilling Contractor Supreme #1 Drill Collar Length 546 I. D. in.

Mud Type Dnspec Viscosity 59 Weight Pipe Length I. D. in.

Weight 9.2 Water Loss 9.6 cc. Drill Pipe Length I. D. in.

Chlorides 8000 P.P.M. Test Tool Length 27 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number Anchor Length 98 ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 2 1/8 in. Tool Joint Size 3 1/2 in.

Blow: Good blow Initial flow period Good blow decreasing to fair & normal flow period

Recovered 3300 ft. of Muddy salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Stdbby 8:30 PM 8-1 until 5 AM 8-2-81 4 1/2

Time On Location 8:30 8-1 A.M. Time Pick Up Tool 5:00 8-2 A.M. Time Off Location P.M.

Time Set Packer(s) 8:08 A.M. Time Started Off Bottom P.M. Maximum Temperature 146°

Initial Hydrostatic Pressure (A) 2194 P.S.I.

Initial Flow Period Minutes 10 (B) 148 P.S.I. to (C) 539 P.S.I.

Initial Closed In Period Minutes 30 (D) 1410 P.S.I.

Final Flow Period Minutes 460 (E) 663 P.S.I. to (F) 1368 P.S.I.

Final Closed In Period Minutes 60 (G) 1420 P.S.I.

Final Hydrostatic Pressure (H) 2194 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of 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.

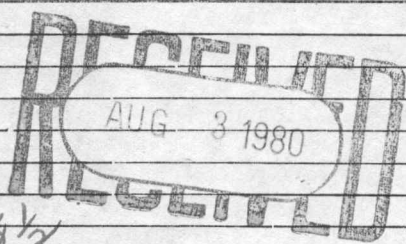
All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By: Signature of Customer or his authorized representative

Western Representative: Kenny Kurlenda

FIELD INVOICE

Table with 2 columns: Item and Price. Items include Open Hole Test (\$700.00), Misrun, Straddle Test, Jars (\$300.00), Selective Zone, Safety Joint (\$65.00), Standby (nachgerulkt), Evaluation, Extra Packer, Circ. Sub., Mileage (\$47.25), Fluid Sampler, Extra Charts, Insurance (\$50.00), and TOTAL.



WESTERN TESTING CO., INC.

Pressure Data

Date 8-2 Test Ticket No. 10406
 Recorder No. 2605 Capacity 4150 Location 4476 Ft.
 Clock No. _____ Elevation 1450 KB Well Temperature 146 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2194</u> P.S.I.	<u>8:08</u> A M	
B First Initial Flow Pressure	<u>148</u> P.S.I.	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>546</u> P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>1415</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>661</u> P.S.I.	<u>60</u> Mins.	<u>66</u> Mins.
F Second Final Flow Pressure	<u>1377</u> P.S.I.		
G Final Closed-in Pressure	<u>1424</u> P.S.I.		
H Final Hydrostatic Mud	<u>2194</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 2 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 11 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

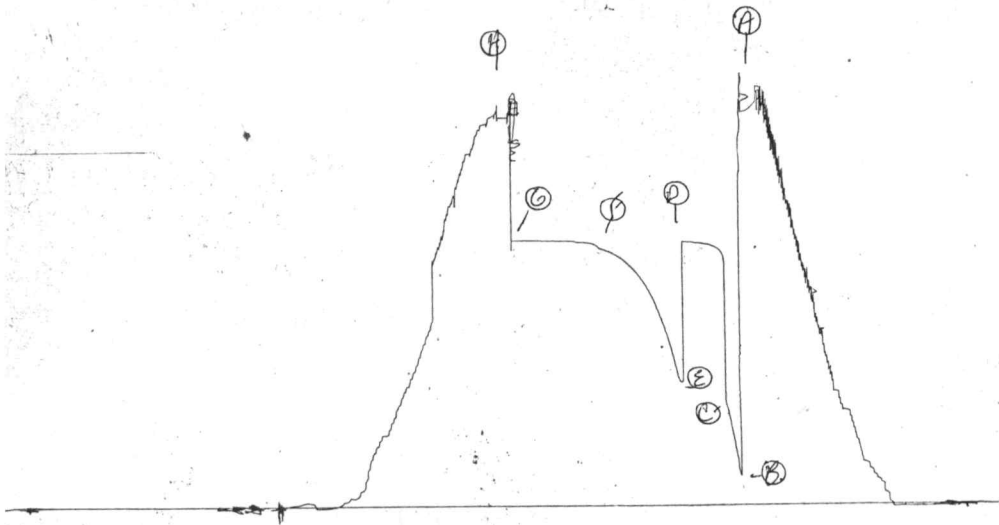
Final Shut-In
 Breakdown: 22 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>148</u>	0	<u>546</u>	0	<u>661</u>	0	<u>1377</u>
P 2 5	<u>356</u>	3	<u>1344</u>	5	<u>740</u>	3	<u>1396</u>
P 3 10	<u>546</u>	6	<u>1371</u>	10	<u>873</u>	6	<u>1406</u>
P 4 15		9	<u>1388</u>	15	<u>979</u>	9	<u>1411</u>
P 5 20		12	<u>1398</u>	20	<u>1075</u>	12	<u>1413</u>
P 6 25		15	<u>1402</u>	25	<u>1147</u>	15	<u>1413</u>
P 7 30		18	<u>1406</u>	30	<u>1207</u>	18	<u>1415</u>
P 8 35		21	<u>1408</u>	35	<u>1253</u>	21	<u>1419</u>
P 9 40		24	<u>1411</u>	40	<u>1288</u>	24	<u>1420</u>
P10 45		27	<u>1413</u>	45	<u>1319</u>	27	<u>1420</u>
P11 50		30	<u>1414</u>	50	<u>1342</u>	30	<u>1421</u>
P12 55		33	<u>1415</u>	55	<u>1359</u>	33	
P13 60		36		60	<u>1377</u>	36	
P14		39		65		39	
P15		42		70		42	<u>1421</u>
P16		45		75		45	<u>1424</u>
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	
						63	
						66	
							<u>1424</u>

2605

TKT # 10406

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Company Cougar Petroleum Corporation Lease & Well No. Booher #1
 Elevation 1450 Kelly Bushing Formation Simpson Effective Pay - Ft. Ticket No. 10406
 Date 8/2/81 Sec. 1 Twp. 31S Range 4W County Sumner State Kansas

Test Approved by Fred Johnson Western Representative Kenny Kirkendall

Formation Test No. 1 Interval Tested from 4471 ft. to 4573 ft. Total Depth 4573 ft.
 Packer Depth 4471 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4466 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4476 ft. Recorder Number 2605 Cap. 4150
 Bottom Recorder Depth (Outside) 4480 ft. Recorder Number 10979 Cap. 4100
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Supreme Rig #1 Drill Collar Length 540 I. D. - in.
 Mud Type Driscopac Viscosity 59 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 9.6 cc. Drill Pipe Length - I. D. - in.
 Chlorides 8000 P.P.M. Test Tool Length 27 ft. Tool Size 5 1/2 in.
 Jars: Make WIC Serial Number 405 Anchor Length 98 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 3 1/2 IF in.

Blow: Good blow initial flow period. Good blow decreasing to fair on final flow period

Recovered 3300 ft. of muddy salt water
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 8:08 ~~P.M.~~ ^{A.M.} Time Started Off Bottom - ~~P.M.~~ ^{A.M.} Maximum Temperature 146
 Initial Hydrostatic Pressure (A) 2194 P.S.I.
 Initial Flow Period Minutes 10 (B) 148 P.S.I. to (C) 546 P.S.I.
 Initial Closed In Period Minutes 33 (D) 1415 P.S.I.
 Final Flow Period Minutes 60 (E) 661 P.S.I. to (F) 1377 P.S.I.
 Final Closed In Period Minutes 66 (G) 1424 P.S.I.
 Final Hydrostatic Pressure (H) 2194 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 8/2/81

Recorder No. 2605

Capacity 4150

Test Ticket No. 10406

Clock No. - Elevation 1450 Kelly Bushing

Location 4476 Ft.

Well Temperature 146 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2194</u>	P.S.I.	<u>8:08A</u>	<u>M</u>
B First Initial Flow Pressure	<u>148</u>	P.S.I.	<u>10</u>	<u>10</u>
C First Final Flow Pressure	<u>546</u>	P.S.I.	<u>30</u>	<u>33</u>
D Initial Closed-in Pressure	<u>1415</u>	P.S.I.	<u>60</u>	<u>60</u>
E Second Initial Flow Pressure	<u>661</u>	P.S.I.	<u>60</u>	<u>66</u>
F Second Final Flow Pressure	<u>1377</u>	P.S.I.		
G Final Closed-in Pressure	<u>1424</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2194</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 2 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 22 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>148</u>	<u>0</u>	<u>546</u>	<u>0</u>	<u>661</u>	<u>0</u>	<u>1377</u>
P 2 <u>5</u>	<u>356</u>	<u>3</u>	<u>1344</u>	<u>5</u>	<u>740</u>	<u>3</u>	<u>1396</u>
P 3 <u>10</u>	<u>546</u>	<u>6</u>	<u>1371</u>	<u>10</u>	<u>873</u>	<u>6</u>	<u>1406</u>
P 4 <u>15</u>		<u>9</u>	<u>1388</u>	<u>15</u>	<u>979</u>	<u>9</u>	<u>1411</u>
P 5		<u>12</u>	<u>1398</u>	<u>20</u>	<u>1075</u>	<u>12</u>	<u>1413</u>
P 6		<u>15</u>	<u>1402</u>	<u>25</u>	<u>1147</u>	<u>15</u>	<u>1413</u>
P 7		<u>18</u>	<u>1406</u>	<u>30</u>	<u>1207</u>	<u>18</u>	<u>1415</u>
P 8		<u>21</u>	<u>1408</u>	<u>35</u>	<u>1253</u>	<u>21</u>	<u>1419</u>
P 9		<u>24</u>	<u>1411</u>	<u>40</u>	<u>1288</u>	<u>24</u>	<u>1420</u>
P10		<u>27</u>	<u>1413</u>	<u>45</u>	<u>1319</u>	<u>27</u>	<u>1420</u>
P11		<u>30</u>	<u>1414</u>	<u>50</u>	<u>1342</u>	<u>30</u>	<u>1421</u>
P12		<u>33</u>	<u>1415</u>	<u>55</u>	<u>1359</u>	<u>33</u>	<u>1421</u>
P13				<u>60</u>	<u>1377</u>	<u>36</u>	<u>1421</u>
P14						<u>39</u>	<u>1421</u>
P15						<u>42</u>	<u>1421</u>
P16						<u>45</u>	<u>1424</u>
P17						<u>48</u>	<u>1424</u>
P18						<u>51</u>	<u>1424</u>
P19						<u>54</u>	<u>1424</u>
P20						<u>57</u>	<u>1424</u>
						<u>60</u>	<u>1424</u>
						<u>63</u>	<u>1424</u>
						<u>66</u>	<u>1424</u>