



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 12707

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201Elevation 1134 Kb Formation Simp Eff. Pay Ft.District Augusta Date 9-18-81 Customer Order No. COMPANY NAME Horizon Petroleum CorporationADDRESS 1134 Kb 833 N Waco Wichita, Mo. 67203LEASE AND WELL NO. Smith #1 COUNTY Cowley STATE Ko Sec. 8 Twp. 33S Rge. 3EMail Invoice To Same ND Smith #1 No. Copies Requested 1Co. Name Same Address No. Copies Requested 5Mail Charts To Same Address No. Copies Requested 5Formation Test No. 1 Interval Tested from 3500 ft. to 3510 ft. Total Depth 3510 ft.Packer Depth 3500 ft. Size 6 3/4 in. Packer Depth ft. Size in.Packer Depth 3495 ft. Size 6 3/4 in. Packer Depth ft. Size in.Depth of Selective Zone Set Top Recorder Depth (Inside) 3504 ft. Recorder Number 2605 Cap. 4150Bottom Recorder Depth (Outside) 3508 ft. Recorder Number 10979 Cap. 4100Below Straddle Recorder Depth ft. Recorder Number Cap. Drilling Contractor Edco #5 Drill Collar Length 360 I. D. in.Mud Type Chem Viscosity 46 Weight Pipe Length I. D. in.Weight 9.3 Water Loss 12.4 cc. Drill Pipe Length I. D. in.Chlorides 6500 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.Jars: Make WTC Serial Number Anchor Length 10 1/4 ft. Size 5 1/2 in.Did Well Flow? NO Reversed Out Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 x 1 1/2 in.Blow: Miss Run Packer Seat failureRecovered ft. ofRecovered ft. ofRecovered ft. ofRecovered ft. ofRecovered ft. ofRemarks: Time On Location 9:30 A.M. Time Pick Up Tool 2:30 P.M. Time Off Location A.M.Time Set Packer(s) P.M. Time Started Off Bottom P.M. Maximum Temperature Initial Hydrostatic Pressure (A) X 1740 P.S.I.Initial Flow Period Minutes (B) P.S.I. to (C) P.S.I.Initial Closed In Period Minutes (D) P.S.I.Final Flow Period Minutes (E) P.S.I. to (F) P.S.I.Final Closed In Period Minutes (G) P.S.I.Final Hydrostatic Pressure (H) X 1730 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.

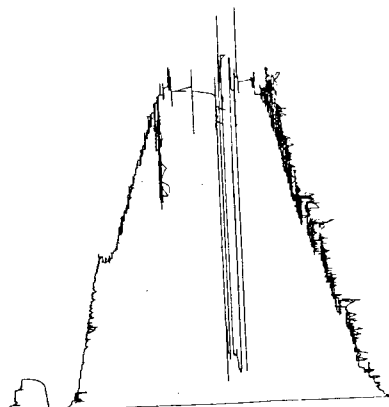
Test Approved By Paul Krontz
Signature of Customer or his authorized representativeWestern Representative Henry Kirkendall

FIELD INVOICE

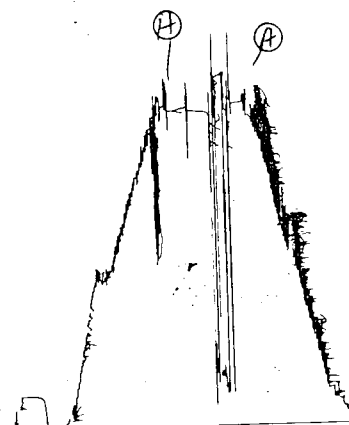
Open Hole Test	\$	
Misrun	\$	400.00
Straddle Test	\$	
Jars	\$	300.00
Selective Zone	\$	
Safety Joint	\$	65.00
Standby	\$	
Evaluation	\$	
Extra Packer	\$	
Circ. Sub.	\$	
Mileage	\$	27.00
Fluid Sampler	\$	
Extra Charts	\$	
Insurance	\$	
TOTAL	\$	792.00

TKT # 12707

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TKT # 12707



Company Horizon Petroleum Corporation Lease & Well No. N. D. Smith #1
Elevation 1134 Kelly Bushing Formation Simpson Effective Pay - Ft. Ticket No. 12707
Date 9/18/81 Sec. 8 Twp. 33S Range 3E County Cowley State Kansas
Test Approved by Paul Koontz Western Representative Kenny Kirkendall
Formation Test No. 1 Interval Tested from 3500 ft. to 3510 ft. Total Depth 3510 ft.
Packer Depth 3500 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3495 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3504 ft. Recorder Number 2605 Cap. 4150
Bottom Recorder Depth (Outside) 3508 ft. Recorder Number 10979 Cap. 4100
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Edco Drlg. Rig #5 Drill Collar Length 360 I. D. - in.
Mud Type chemical Viscosity 46 Weight Pipe Length - I. D. - in.
Weight 9.3 Water Loss 12.4 cc. Drill Pipe Length - I. D. - in.
Chlorides 6,500 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make WTC Serial Number 205 Anchor Length 10 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 4 1/2 XH in.

MLSRUN

Blow: PACKER SEAT FAILURE

Recovered - ft. of
Recovered - ft. of
Recovered - ft. of
Recovered - ft. of
Recovered - ft. of MLSRUN
Remarks: -

Time Set Packer(s) - A.M. P.M. Time Started Off Bottom 1740 A.M. P.M. Maximum Temperature -
Initial Hydrostatic Pressure - (A) 1740 P.S.I.
Initial Flow Period - Minutes (B) - P.S.I. to (C) - P.S.I.
Initial Closed In Period - Minutes (D) - P.S.I.
Final Flow Period - Minutes (E) - P.S.I. to (F) - P.S.I.
Final Closed In Period - Minutes (G) - P.S.I.
Final Hydrostatic Pressure - (H) 1730 P.S.I.



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No 12708

P. O. BOX 1599 PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation 1134 Kb

Formation Lima

Eff. Pay Ft.

District Augusta

Date 9-18-81

Customer Order No.

COMPANY NAME

ADDRESS

LEASE AND WELL NO. Smith #1

COUNTY Cowley

STATE Ks

Sec. 8

Twp. 33S

Rge. 3E

Mail Invoice To

Same ND Smith #1

No. Copies Requested 1

Mail Charts To

Same

No. Copies Requested 5

Formation Test No. 2 Interval Tested from 3493 ft. to 3510 ft. Total Depth 3510 ft.

Packer Depth 3493 ft. Size 6 3/4 in.

Packer Depth ft. Size in.

Packer Depth 3488 ft. Size 6 3/4 in.

Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3497 ft.

Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 3501 ft.

Recorder Number 10979 Cap. 4100

Below Straddle Recorder Depth ft.

Recorder Number Cap.

Drilling Contractor Edco #5

Drill Collar Length 340 I. D. in.

Mud Type Chem Viscosity 46

Weight Pipe Length I. D. in.

Weight 9.3 Water Loss 12.4 cc.

Drill Pipe Length 3108 I. D. in.

Chlorides 6,500 P.P.M.

Test Tool Length 25 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number

Anchor Length 17 ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out NO

Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.

Main Hole Size 9 1/8 in. Tool Joint Size 4 1/2 x 1 in.

Blow: WH building to good flow, WH building to fair on final flow period

Recovered 720 ft. of gas dry pipe

Recovered 200 ft. of gas dry pipe

Recovered 130 ft. of 35% oil & gas cut sand 40 gas 35% oil 10% water 55% mud

Recovered 560 ft. of very slightly oil cut gassy salt water

Recovered ft. of

Remarks: Shut down until daylight to finish pulling test 3AM-7AM

Time On Location A.M. P.M. Time Pick Up Tool A.M. P.M. Time Off Location A.M. P.M.

Time Set Packer(s) 10:30 P.M. Time Started Off Bottom 1:00 P.M. Maximum Temperature

Initial Hydrostatic Pressure (A) 1744 P.S.I.

Initial Flow Period Minutes 60 (B) 158 P.S.I. to (C) 296 P.S.I.

Initial Closed In Period Minutes 30 (D) 1296 P.S.I.

Final Flow Period Minutes 30 (E) 338 P.S.I. to (F) 370 P.S.I.

Final Closed In Period Minutes 30 (G) 1296 P.S.I.

Final Hydrostatic Pressure (H) 1744 P.S.I.

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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

FIELD INVOICE

Open Hole Test	\$ 625.00
Misrun	\$
Straddle Test	\$
Jars	\$ 300.00
Selective Zone	\$
Safety Joint	\$ 65.00
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$
Mileage	\$
Fluid Sampler	\$
Extra Charts	\$
Insurance	\$
TOTAL	\$ 990.00

WESTERN TESTING CO., INC.

Pressure Data

Date 9-18 Recorder No. 2605 Capacity 4150 Test Ticket No. 12708
 Clock No. --- Elevation 1134 KB Location 3497 Ft. Well Temperature --- °F

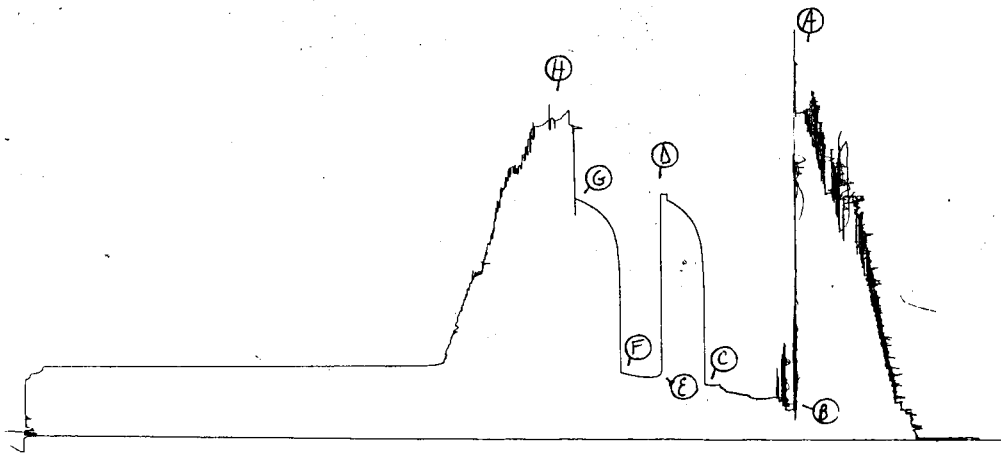
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1755</u> P.S.I.	<u>10:30</u> P.M.	
B First Initial Flow Pressure	<u>158</u> P.S.I.	<u>60</u> Mins.	<u>65</u> Mins.
C First Final Flow Pressure	<u>301</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1284</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>343</u> P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>364</u> P.S.I.		
G Final Closed-in Pressure	<u>1290</u> P.S.I.		
H Final Hydrostatic Mud	<u>1755</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>13</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>11</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>158</u>	0	<u>301</u>	0	<u>343</u>	0	<u>364</u>
P 2 5	<u>169</u>	3	<u>971</u>	5	<u>343</u>	3	<u>1046</u>
P 3 10	<u>214</u>	6	<u>1091</u>	10	<u>343</u>	6	<u>1122</u>
P 4 15	<u>235</u>	9	<u>1149</u>	15	<u>345</u>	9	<u>1159</u>
P 5 20	<u>229</u>	12	<u>1184</u>	20	<u>352</u>	12	<u>1193</u>
P 6 25	<u>229</u>	15	<u>1209</u>	25	<u>358</u>	15	<u>1213</u>
P 7 30	<u>229</u>	18	<u>1232</u>	30	<u>364</u>	18	<u>1230</u>
P 8 35	<u>246</u>	21	<u>1246</u>	35		21	<u>1244</u>
P 9 40	<u>252</u>	24	<u>1263</u>	40		24	<u>1257</u>
P10 45	<u>258</u>	27	<u>1277</u>	45		27	<u>1269</u>
P11 50	<u>277</u>	30	<u>1284</u>	50		30	<u>1280</u>
P12 55	<u>299</u>	33		55		33	<u>1290</u>
P13 60	<u>299</u>	36		60		36	
P14 65	<u>301</u>	39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

Dgt #2
2.605

TKT. # 12708
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Company Horizon Petroleum Corporation Lease & Well No. N. D. Smith #1
 Elevation 1134 Kelly Bushing Formation Simpson Effective Pay - Ft. Ticket No. 12708
 Date 9/18/81 Sec. 8 Twp. 33S Range 3E County Cowley State Kansas
 Test Approved by Paul Koontz Western Representative Kenny Kirkendall
 Formation Test No. 2 Interval Tested from 3493 ft. to 3510 ft. Total Depth 3510 ft.
 Packer Depth 3493 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3488 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3497 ft. Recorder Number 2605 Cap 4150
 Bottom Recorder Depth (Outside) 3501 ft. Recorder Number 10979 Cap 4100
 Below Straddle Recorder Depth - ft. Recorder Number - Cap -
 Drilling Contractor Edco Drlg. Rig #5 Drill Collar Length 360 I. D. - in.
 Mud Type chemical Viscosity 46 Weight Pipe Length - I. D. - in.
 Weight 9.3 Water Loss 12.4 cc. Drill Pipe Length 3108 I. D. - in.
 Chlorides 6,500 P.P.M. Test Tool Length 25 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 205 Anchor Length 17 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 4 1/2 XH in.
 Blow: Weak, building to good blow initial flow; weak building to fair on final flow period.

Recovered 720 ft. of gas in pipe
 Recovered 200 ft. of free oil, gassy 40 gravity
 Recovered 120 ft. of oil and gas cut mud 35% oil; 10% water; 55% mud
 Recovered 560 ft. of very slightly oil cut gassy salt water
 Recovered - ft. of -
 Remarks: Shut down until daylight to finish pulling test 3:00AM - 7:00 AM

Time Set Packer(s) 10:30 ~~A.M.~~ P.M. Time Started Off Bottom 1:00 ~~A.M.~~ P.M. Maximum Temperature ?
 Initial Hydrostatic Pressure 1755 P.S.I.
 Initial Flow Period 65 Minutes (A) 158 P.S.I. to (C) 301 P.S.I.
 Initial Closed In Period 30 Minutes (D) 1284 P.S.I.
 Final Flow Period 30 Minutes (E) 343 P.S.I. to (F) 364 P.S.I.
 Final Closed In Period 33 Minutes (G) 1290 P.S.I.
 Final Hydrostatic Pressure 1755 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 9/18/81 Recorder No. 2605 Capacity 4150 Test Ticket No. 12708
 Clock No. -- Elevation 1134 Kelly Bushing Location 3497 Ft. --
 Well Temperature -- °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1755	P.S.I.	10:30P	M
B First Initial Flow Pressure	158	P.S.I.	60	Mins. 65
C First Final Flow Pressure	301	P.S.I.	30	Mins. 30
D Initial Closed-in Pressure	1284	P.S.I.	30	Mins. 30
E Second Initial Flow Pressure	343	P.S.I.	30	Mins. 33
F Second Final Flow Pressure	364	P.S.I.		
G Final Closed-in Pressure	1290	P.S.I.		
H Final Hydrostatic Mud	1755	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>13</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>11</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>158</u>	<u>0</u>	<u>301</u>	<u>0</u>	<u>343</u>	<u>0</u>	<u>364</u>
P 2 <u>5</u>	<u>169</u>	<u>3</u>	<u>971</u>	<u>5</u>	<u>343</u>	<u>3</u>	<u>1046</u>
P 3 <u>10</u>	<u>214</u>	<u>6</u>	<u>1091</u>	<u>10</u>	<u>343</u>	<u>6</u>	<u>1122</u>
P 4 <u>15</u>	<u>235</u>	<u>9</u>	<u>1149</u>	<u>15</u>	<u>345</u>	<u>9</u>	<u>1159</u>
P 5 <u>20</u>	<u>229</u>	<u>12</u>	<u>1184</u>	<u>20</u>	<u>352</u>	<u>12</u>	<u>1193</u>
P 6 <u>25</u>	<u>229</u>	<u>15</u>	<u>1209</u>	<u>25</u>	<u>358</u>	<u>15</u>	<u>1213</u>
P 7 <u>30</u>	<u>229</u>	<u>18</u>	<u>1232</u>	<u>30</u>	<u>364</u>	<u>18</u>	<u>1230</u>
P 8 <u>35</u>	<u>246</u>	<u>21</u>	<u>1246</u>			<u>21</u>	<u>1244</u>
P 9 <u>40</u>	<u>252</u>	<u>24</u>	<u>1263</u>			<u>24</u>	<u>1257</u>
P10 <u>45</u>	<u>258</u>	<u>27</u>	<u>1277</u>			<u>27</u>	<u>1269</u>
P11 <u>50</u>	<u>277</u>	<u>30</u>	<u>1284</u>			<u>30</u>	<u>1280</u>
P12 <u>55</u>	<u>299</u>					<u>33</u>	<u>1290</u>
P13 <u>60</u>	<u>299</u>						
P14 <u>65</u>	<u>301</u>						
P15							
P16							
P17							
P18							
P19							
P20							