



P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 6809

Elevation 1233 KB Formation Simpson Sand Eff. Pay Ft.

District Augusta Date 2-18-81 Customer Order No.

COMPANY NAME Hawkins Oil & Gas, Inc.

ADDRESS 320 So. Boston, Suite 701, Tulsa, OKLA, 74103

LEASE AND WELL NO. Sukovaty #1-7 COUNTY Sumner STATE Kans. Sec. 71 Twp. 33S Rge. 1 W

Mail Invoice To Same Co. Name Address No. Copies Requested 1

Mail Charts To Same Co. Name Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 4279 ft. to 4287 ft. Total Depth 4287 ft.
Packer Depth 4274 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 4279 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) A.P. 4265 ft. Recorder Number 3354 Cap. 4200
Bottom Recorder Depth (Outside) A.P. 4268 ft. Recorder Number 13268 Cap. 4225
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor DNB Rig 3 Drill Collar Length 368 I. D. 2 1/4 in.
Mud Type Chem Viscosity 5B Weight Pipe Length I. D. in.
Weight 8.9 Water Loss 11 cc. Drill Pipe Length 3928 I. D. 3.8 in.
Chlorides 4000 P.P.M. Test Tool Length 35 ft. Tool Size 5 in.
Jars: Make WTC Serial Number 414 Anchor Length 8 ft. Size 4 1/2 in.
Did Well Flow? YES 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 FH in.

Blow: Strong
GAS TO SURFACE 30 min 25,000 mfpd

Recovered 450 ft. of GAS Cut FREE OIL specific gravity 50
Recovered 300 ft. of Muddy SWATER chlorides 71,000
Recovered ft. of Resistivity 11 @ 65°
Recovered ft. of

Remarks: 750 total fluid
Pulled 4 STANDS 10:30pm wait till Daylight
DN loc 11:30AM Pick up tool 5:15pm Job Complete 10:45AM
2-19-81

Time Set Packer(s) <u>8:00</u> P.M.	Time Started Off Bottom <u>10:00</u> P.M.	Maximum Temperature <u>123</u>
Initial Hydrostatic Pressure <u> </u>	(A) <u>2048</u> P.S.I.	
Initial Flow Period <u>30</u> Minutes	(B) <u>94</u> P.S.I.	to (C) <u>189</u> P.S.I.
Initial Closed In Period <u>30</u> Minutes	(D) <u>1402</u> P.S.I.	
Final Flow Period <u>30</u> Minutes	(E) <u>200</u> P.S.I.	to (F) <u>274</u> P.S.I.
Final Closed In Period <u>30</u> Minutes	(G) <u>1381</u> P.S.I.	
Final Hydrostatic Pressure <u> </u>	(H) <u>1974</u> 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 S. [Signature]
Signature of Customer or his authorized representative

Western Representative Allen Edgington

FIELD INVOICE

Open Hole Test	\$ <u>700.00</u>
Misrun	\$ <u> </u>
Straddle Test	\$ <u> </u>
Jars	\$ <u>300.00</u>
Selective Zone	\$ <u> </u>
Safety Joint	\$ <u>65.00</u>
Standby	\$ <u> </u>
Evaluation	\$ <u> </u>
Extra Packer	\$ <u> </u>
Circ. Sub.	\$ <u> </u>
57 Mileage	\$ <u>42.75</u>
Fluid Sampler	\$ <u> </u>
Extra Charts	\$ <u> </u>
TOTAL	\$ <u>1107.75</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 2-18 Recorder No. 3354 Capacity 4200 Location 4265 Ft.
 Clock No. _____ Elevation 1233 KB Well Temperature 123 °F

Test Ticket No. 6809

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2048</u> P.S.I.	Open Tool	<u>8:00 PM</u>	
B First Initial Flow Pressure	<u>104</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>190</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1409</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>202</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>274</u> P.S.I.			
G Final Closed-in Pressure	<u>1394</u> P.S.I.			
H Final Hydrostatic Mud	<u>1974</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: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 10 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>104</u>	0	<u>190</u>	0	<u>202</u>	0	<u>274</u>
P 2 5	<u>104</u>	3	<u>1295</u>	5	<u>204</u>	3	<u>1295</u>
P 3 10	<u>119</u>	6	<u>1350</u>	10	<u>218</u>	6	<u>1333</u>
P 4 15	<u>137</u>	9	<u>1365</u>	15	<u>234</u>	9	<u>1352</u>
P 5 20	<u>158</u>	12	<u>1380</u>	20	<u>248</u>	12	<u>1363</u>
P 6 25	<u>175</u>	15	<u>1388</u>	25	<u>262</u>	15	<u>1369</u>
P 7 30	<u>190</u>	18	<u>1396</u>	30	<u>274</u>	18	<u>1376</u>
P 8 35		21	<u>1400</u>	35		21	<u>1381</u>
P 9 40		24	<u>1404</u>	40		24	<u>1386</u>
P10 45		27	<u>1407</u>	45		27	<u>1391</u>
P11 50		30	<u>1409</u>	50		30	<u>1394</u>
P12 55		33		55		33	
P13 60		36		60		36	
P14		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	

Company Hawkins Oil & Gas, Inc. Lease & Well No. Sukovaty #1-7
 Elevation 1233 Kelly Bushing Formation Simpson Sand Effective Pay - Ft. Ticket No. 6809
 Date 2/18/81 Sec. 1 Twp. 33S Range 1W County Sumner State Kansas
 Test Approved by Paul D. Koontz Western Representative Allen Edgington

Formation Test No. 1 Interval Tested from 4279 ft. to 4287 ft. Total Depth 4287 ft.
 Packer Depth 4274 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
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 Depth of Selective Zone Set -

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 Below Straddle Recorder Depth - ft. Recorder Number - Cap -
 Drilling Contractor DNB Drilling Rig #3 Drill Collar Length 368 I. D. 2 1/4 in.
 Mud Type chemical Viscosity 53 Weight Pipe Length - I. D. - in.
 Weight 8.9 Water Loss 11 cc. Drill Pipe Length 3928 I. D. 3.8 in.
 Chlorides 4,000 P.P.M. Test Tool Length 35 ft. Tool Size 5 in.
 Jars: Make WTC Serial Number 414 Anchor Length 8 ft. Size 4 1/2 in.
 Did Well Flow? Yes 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 FH in.

Blow: Strong. Gas to surface thirty minutes. See attached sheet for gas measurements.

Recovered 450 ft. of gas cut free oil specific gravity 50
 Recovered 300 ft. of muddy salt water Chlorides 71,000 ppm
 Recovered - ft. of - Resistivity .11 @ 65°
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: Pulled four stands 10:30 PM waited until daylight.

Time Set Packer(s) 8:00 ~~AM~~ P.M. Time Started Off Bottom 10:00 ~~AM~~ P.M. Maximum Temperature 123°
 Initial Hydrostatic Pressure (A) 2048 P.S.I.
 Initial Flow Period Minutes 30 (B) 104 P.S.I. to (C) 190 P.S.I.
 Initial Closed In Period Minutes 30 (D) 1409 P.S.I.
 Final Flow Period Minutes 30 (E) 202 P.S.I. to (F) 274 P.S.I.
 Final Closed In Period Minutes 30 (G) 1394 P.S.I.
 Final Hydrostatic Pressure (H) 1974 P.S.I.

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C First Final Flow Pressure	190	P.S.I.	30	Mins. 30
D Initial Closed-in Pressure	1409	P.S.I.	30	Mins. 30
E Second Initial Flow Pressure	202	P.S.I.	30	Mins. 30
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	104	0	190	0	202	0	274
P 2 5	104	3	1295	5	204	3	1295
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P 9		24	1404			24	1386
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P11		30	1409			30	1394
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P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							