



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO

8315

P. O. BOX 1599

PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation

Formation

Eff. Pay Ft.

District

Date

Customer Order No.

COMPANY NAME

ADDRESS

LEASE AND WELL NO.

COUNTY

STATE

Sec.

Twp

Rge

Mail Invoice To

Co. Name

Address

No. Copies Requested

Mail Charts To

Address

No. Copies Requested

Formation Test No.

Interval Tested from

ft. to

ft.

Total Depth

ft.

Packer Depth

ft.

Size

in.

Packer Depth

ft.

Size

in.

Packer Depth

ft.

Size

in.

Packer Depth

ft.

Size

in.

Depth of Selective Zone Set

Top Recorder Depth (Inside)

ft.

Recorder Number

Cap.

Bottom Recorder Depth (Outside)

ft.

Recorder Number

Cap.

Below Straddle Recorder Depth

ft.

Recorder Number

Cap.

Drilling Contractor

Drill Collar Length

I. D.

in.

Mud Type

Viscosity

Weight Pipe Length

I. D.

in.

Weight

Water Loss

cc.

Drill Pipe Length

I. D.

in.

Chlorides

P.P.M.

Test Tool Length

ft.

Tool Size

in.

Jars: Make

Serial Number

Anchor Length

ft.

Size

in.

Did Well Flow?

Reversed Out

Surface Choke Size

in.

Bottom Choke Size

in.

Main Hole Size

in.

Tool Joint Size

in.

Blow:

Recovered

ft. of

Recovered

ft. of

Recovered

ft. of

Recovered

ft. of

Recovered

ft. of

Remarks:

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)

A.M.
P.M.

Time Started Off Bottom

A.M.
P.M.

Maximum Temperature

Initial Hydrostatic Pressure

(A)

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)

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

FIELD INVOICE

Open Hole Test

\$

Misrun

\$

Straddle Test

\$

Jars

\$

Selective Zone

\$

Safety Joint

\$

Standby

\$

Evaluation

\$

Extra Packer

\$

Circ. Sub.

\$

Mileage

\$

Fluid Sampler

\$

Extra Charts

\$

Insurance

\$

TOTAL

\$

Phone 316 262-5861



P. O. Box 1599

WICHITA, KANSAS 67201

GAS FLOW REPORT

No 2195

Date 12-10-80 Ticket 8315 Company DNB Drlg.
 Well Name and No. Huck "A" #4 Dst No. 1 Interval Tested 5742-72
 County Kiowa State KS Sec. 20 Twp. 30s Rg. 20w

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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PRE FLOW

15	4	1/2			68,800 cfd
30	4	1/2			68,800

SECOND FLOW

15	3	1/2			59,200
30	2	1/2			43,700
45	}	}			42,700
60					42,700
75					42,700
90					42,700

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME _____

Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 12-10 Recorder No. 2604 6246 Capacity 4150 5200 Location 5169 ft.
 Clock No. 130 Elevation 130 Well Temperature 130 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>25</u> ⁶⁴	<u>11:51 A</u>	
B First Initial Flow Pressure	<u>147</u>	<u>30</u> Mins.	<u>25</u> Mins.
C First Final Flow Pressure	<u>188</u>	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>637</u>	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>204</u>	<u>60</u> Mins.	<u>54</u> Mins.
F Second Final Flow Pressure	<u>296</u>		
G Final Closed-in Pressure	<u>610</u>		
H Final Hydrostatic Mud	<u>2480</u>		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>18</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>0</u>	<u>188</u>	<u>0</u>	<u>204</u>	<u>0</u>	<u>296</u>
P 2	<u>5</u>	<u>3</u>	<u>435</u>	<u>5</u>	<u>194</u>	<u>3</u>	<u>435</u>
P 3	<u>10</u>	<u>6</u>	<u>497</u>	<u>10</u>	<u>199</u>	<u>6</u>	<u>482</u>
P 4	<u>15</u>	<u>9</u>	<u>529</u>	<u>15</u>	<u>207</u>	<u>9</u>	<u>505</u>
P 5	<u>20</u>	<u>12</u>	<u>552</u>	<u>20</u>	<u>217</u>	<u>12</u>	<u>526</u>
P 6	<u>25</u>	<u>15</u>	<u>565</u>	<u>25</u>	<u>225</u>	<u>15</u>	<u>542</u>
P 7	<u>30</u>	<u>18</u>	<u>579</u>	<u>30</u>	<u>233</u>	<u>18</u>	<u>558</u>
P 8	<u>35</u>	<u>21</u>	<u>586</u>	<u>35</u>	<u>241</u>	<u>21</u>	<u>565</u>
P 9	<u>40</u>	<u>24</u>	<u>594</u>	<u>40</u>	<u>249</u>	<u>24</u>	<u>571</u>
P10	<u>45</u>	<u>27</u>	<u>602</u>	<u>45</u>	<u>256</u>	<u>27</u>	<u>576</u>
P11	<u>50</u>	<u>30</u>	<u>607</u>	<u>50</u>	<u>260</u>	<u>30</u>	<u>581</u>
P12	<u>55</u>	<u>33</u>	<u>613</u>	<u>55</u>	<u>264</u>	<u>33</u>	<u>586</u>
P13	<u>60</u>	<u>36</u>	<u>615</u>	<u>60</u>	<u>270</u>	<u>36</u>	<u>589</u>
P14		<u>39</u>	<u>620</u>	<u>65</u>	<u>275</u>	<u>39</u>	<u>594</u>
P15		<u>42</u>	<u>623</u>	<u>70</u>	<u>280</u>	<u>42</u>	<u>598</u>
P16		<u>45</u>	<u>627</u>	<u>75</u>	<u>285</u>	<u>45</u>	<u>602</u>
P17		<u>48</u>	<u>629</u>	<u>80</u>	<u>288</u>	<u>48</u>	<u>605</u>
P18		<u>51</u>	<u>631</u>	<u>85</u>	<u>293</u>	<u>51</u>	<u>609</u>
P19		<u>54</u>	<u>633</u>	<u>90</u>	<u>296</u>	<u>54</u>	<u>610</u>
P20		<u>57</u>	<u>635</u>			<u>57</u>	
		<u>60</u>	<u>637</u>			<u>60</u>	

Company DNB Drilling, Inc. Lease & Well No. Huck "A" #4
Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 8315
Date 12-10-80 Sec. 20 Twp. 30S Range 20W County Kiowa State Kansas
Test Approved by Richard E. Roby Western Representative Jeff Piotrowski
Formation Test No. 1 Interval Tested from 5142 ft. to 5172 ft. Total Depth 5172 ft.
Packer Depth 5137 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 5142 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set 5145
Top Recorder Depth (Inside) 5145 ft. Recorder Number 2604 Cap. 4150
Bottom Recorder Depth (Outside) 5169 ft. Recorder Number 6246 Cap. 5200
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor DNB Drilling Rig #2 Drill Collar Length - I. D. - in.
Mud Type Starch Viscosity 49 Weight Pipe Length 600 I. D. 3.2 in.
Weight 9.5 Water Loss 12.0 cc. Drill Pipe Length 4522 I. D. 3.8 in.
Chlorides 52,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 30 ft. Size 5 1/2 OD 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 FH in.
Blow: Strong. Gas to surface in six minutes. See attached sheet for gas measurements.

Recovered 60 ft. of mud
Recovered 120 ft. of oil cut mud - 30% mud; 50% oil; 20% gas
Recovered 240 ft. of muddy oil
Recovered 420 ft. of froggy oil (little water in last stand)
Recovered - ft. of -

Remarks:

Read outside chart

Time Set Packer(s) 11:51 A.M. Time Started Off Bottom 3:51 A.M. Maximum Temperature 130
Initial Hydrostatic Pressure (A) 2564 P.S.I.
Initial Flow Period Minutes 25 (B) 147 P.S.I. to (C) 188 P.S.I.
Initial Closed In Period Minutes 60 (D) 637 P.S.I.
Final Flow Period Minutes 90 (E) 204 P.S.I. to (F) 296 P.S.I.
Final Closed In Period Minutes 54 (G) 610 P.S.I.
Final Hydrostatic Pressure (H) 2480 P.S.I.

GAS FLOW REPORT

Date 12-10-80 Ticket 8315 Company DNB Drilling, Inc.
 Well Name and No. Huck "A" #4 Dst No. 1 Interval Tested 5142-72
 County Kiowa State Kansas Sec. 20 Twp. 30S Rg. 20W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
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PRE FLOW

	15 Min	4.0 PSIG	½" Orifice			68,800 C.F.P.D.
	30 Min	4.0 PSIG	½" Orifice			68,800 C.F.P.D.

SECOND FLOW

	15 Min	3.0 PSIG	½" Orifice			59,200 C.F.P.D.
	30 Min	2.0 PSIG	½" Orifice			47,700 C.F.P.D.
	45 Min	2.0 PSIG	½" Orifice			47,700 C.F.P.D.
	60 Min	2.0 PSIG	½" Orifice			47,700 C.F.P.D.
	75 Min	2.0 PSIG	½" Orifice			47,700 C.F.P.D.
	90 Min	2.0 PSIG	½" Orifice			47,700 C.F.P.D.

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced 12-10-80

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME DNB Drilling, Inc.

Authorized by Richard E. Roby

WESTERN TESTING CO., INC.

Pressure Data

Date 12-10-80

Test Ticket No. 8315

Recorder No. 6246 Capacity 5200 Location 5169 Ft.

Clock No. - Elevation - Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2564</u> P.S.I.	Open Tool	<u>11:51A</u>	<u>M</u>
B First Initial Flow Pressure	<u>147</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>25</u> Mins.
C First Final Flow Pressure	<u>188</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>637</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>204</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>54</u> Mins.
F Second Final Flow Pressure	<u>296</u> P.S.I.			
G Final Closed-in Pressure	<u>610</u> P.S.I.			
H Final Hydrostatic Mud	<u>2480</u> P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 18 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 18 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>147</u>	<u>0</u>	<u>188</u>	<u>0</u>	<u>204</u>	<u>0</u>	<u>296</u>
P 2 <u>5</u>	<u>144</u>	<u>3</u>	<u>435</u>	<u>5</u>	<u>194</u>	<u>3</u>	<u>435</u>
P 3 <u>10</u>	<u>152</u>	<u>6</u>	<u>497</u>	<u>10</u>	<u>199</u>	<u>6</u>	<u>482</u>
P 4 <u>15</u>	<u>168</u>	<u>9</u>	<u>529</u>	<u>15</u>	<u>207</u>	<u>9</u>	<u>505</u>
P 5 <u>20</u>	<u>181</u>	<u>12</u>	<u>552</u>	<u>20</u>	<u>217</u>	<u>12</u>	<u>526</u>
P 6 <u>25</u>	<u>188</u>	<u>15</u>	<u>565</u>	<u>25</u>	<u>225</u>	<u>15</u>	<u>542</u>
P 7 _____		<u>18</u>	<u>579</u>	<u>30</u>	<u>233</u>	<u>18</u>	<u>558</u>
P 8 _____		<u>21</u>	<u>586</u>	<u>35</u>	<u>241</u>	<u>21</u>	<u>565</u>
P 9 _____		<u>24</u>	<u>594</u>	<u>40</u>	<u>249</u>	<u>24</u>	<u>571</u>
P10 _____		<u>27</u>	<u>602</u>	<u>45</u>	<u>256</u>	<u>27</u>	<u>576</u>
P11 _____		<u>30</u>	<u>607</u>	<u>50</u>	<u>260</u>	<u>30</u>	<u>581</u>
P12 _____		<u>33</u>	<u>613</u>	<u>55</u>	<u>264</u>	<u>33</u>	<u>586</u>
P13 _____		<u>36</u>	<u>615</u>	<u>60</u>	<u>270</u>	<u>36</u>	<u>589</u>
P14 _____		<u>39</u>	<u>620</u>	<u>65</u>	<u>275</u>	<u>39</u>	<u>594</u>
P15 _____		<u>42</u>	<u>623</u>	<u>70</u>	<u>280</u>	<u>42</u>	<u>598</u>
P16 _____		<u>45</u>	<u>627</u>	<u>75</u>	<u>285</u>	<u>45</u>	<u>602</u>
P17 _____		<u>48</u>	<u>629</u>	<u>80</u>	<u>288</u>	<u>48</u>	<u>605</u>
P18 _____		<u>51</u>	<u>631</u>	<u>85</u>	<u>293</u>	<u>51</u>	<u>609</u>
P19 _____		<u>54</u>	<u>633</u>	<u>90</u>	<u>296</u>	<u>54</u>	<u>610</u>
P20 _____		<u>57</u>	<u>635</u>				
		<u>60</u>	<u>637</u>				

6246
DST #1

TKT #8315
0

