

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. <u>HAFFNER #1</u>		Test No. <u>1</u>	Date <u>5/2/90</u>
Company <u>NATIONAL PETROLEUM RESERVES INC</u>		Zone Tested <u>LANSING-KS CITY</u>	
Address <u>250 N ROCK RD SWT 340 WICHITA KS</u>		Elevation <u>2627 KB</u>	
Co. Rep./Geo. <u>MR HOWELL CRENSHAW</u>		Est. Ft. of Pay <u>8</u>	
Location: Sec. <u>6</u> Twp. <u>10S</u> Rge. <u>26W</u>		Co. <u>SHERIDAN</u> State <u>KANSAS</u>	

Interval Tested <u>3847-3891</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>44</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>3842</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth <u>3847</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>0</u>
Total Depth <u>3891</u>	Drill Collar — 2.25 Ft. Run <u>0</u>
Mud Wt. <u>8.9</u> lb/gal.	Viscosity <u>46</u> Filtrate <u>8.0</u>
Tool Open @ <u>10:16 PM</u> Initial Blow <u>WEAK SURFACE BLOW INCREASING TO A WEAK</u>	
<u>1" BLOW</u>	
Final Blow <u>VERY WEAK SURFACE BLOW</u>	

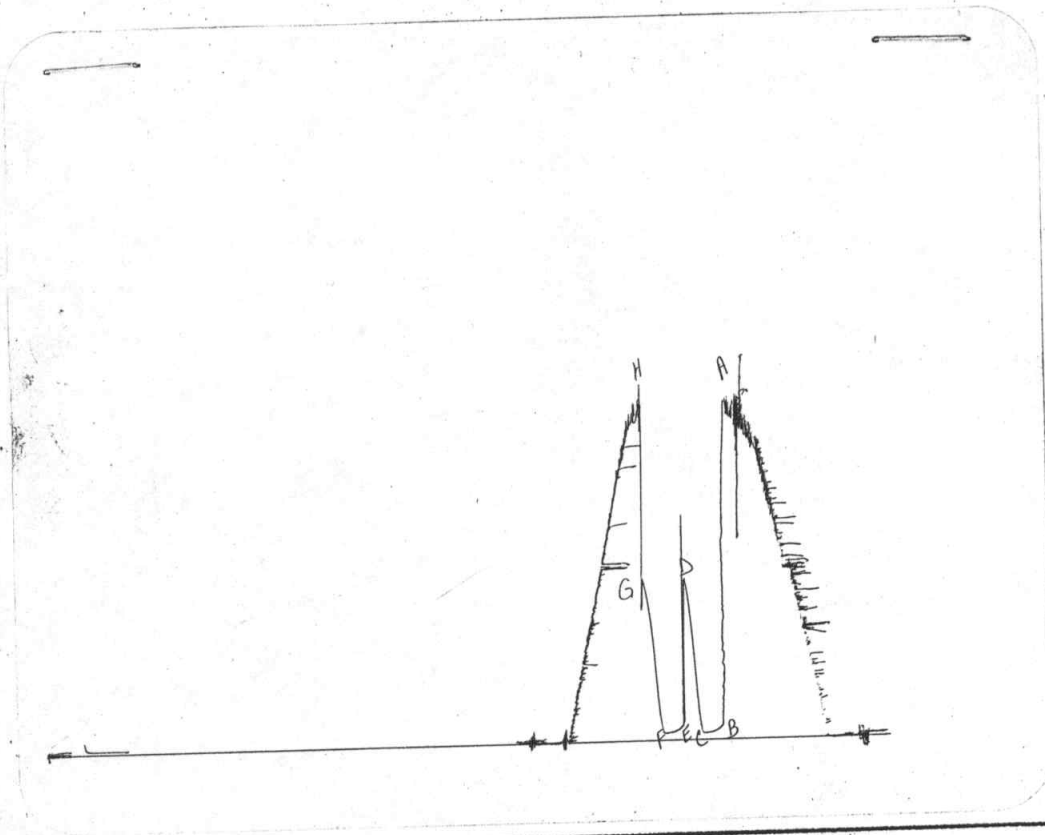
Recovery — Total Feet <u>10</u>	Flush Tool? <u></u>
Rec. <u>10</u> Feet of <u>DRILLING MUD</u>	
Rec. <u>0</u> Feet of <u></u>	
Rec. <u>0</u> Feet of <u></u>	
Rec. <u>0</u> Feet of <u></u>	
Rec. <u>0</u> Feet of <u></u>	
BHT <u>110</u> °F Gravity <u>0</u> °API @ <u>0</u> °F Corrected Gravity <u>0</u> °API	
RW <u></u> @ <u></u> °F Chlorides <u></u> ppm Recovery Chlorides <u></u> ppm System	
(A) Initial Hydrostatic Mud <u>1920.3</u> PSI AK1 Recorder No. <u>13851</u> Range <u>4425</u>	
(B) First Initial Flow Pressure <u>40.9</u> PSI @ (depth) <u>3851</u> w/Clock No. <u>31154</u>	
(C) First Final Flow Pressure <u>45.6</u> PSI AK1 Recorder No. <u>13850</u> Range <u>4325</u>	
(D) Initial Shut-In Pressure <u>885.4</u> PSI @ (depth) <u>3888</u> w/Clock No. <u>30401</u>	
(E) Second Initial Flow Pressure <u>41.2</u> PSI AK1 Recorder No. <u>0</u> Range <u>0</u>	
(F) Second Final Flow Pressure <u>47.8</u> PSI @ (depth) <u>0</u> w/Clock No. <u>0</u>	
(G) Final Shut-In Pressure <u>889.6</u> PSI Initial Opening <u>15</u>	
(H) Final Hydrostatic Mud <u>1890.6</u> PSI Initial Shut-In <u>15</u>	
	Final Flow <u>15</u>
	Final Shut-In <u>15</u>

MR CARL F GOFF

400

Our Representative

TOTAL PRICE \$

DST# 1RECORDER# 13850

This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud.....	1918	1920.3
(B) First Initial Flow Pressure.....	44	40.9
(C) First Final Flow Pressure.....	44	45.6
(D) Initial Closed-In Pressure.....	882	885.4
(E) Second Initial Flow Pressure.....	44	41.2
(F) Second Final Flow Pressure.....	44	47.8
(G) Final Closed-In Pressure.....	882	889.6
(H) Final Hydrostatic Mud.....	1896	1890.6

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

Nº 2846

Well Name & No. <u>Haffner #1</u>	Test No. <u>1</u>	Date <u>5/2/90</u>
Company <u>National Petroleum Reserves, Inc.</u>	Zone Tested <u>LKC 'A'</u>	
Address <u>250 N. Rock Rd. #340 Wichita, Ks. 67206</u>	Elevation <u>2627 KB</u>	
Co. Rep. / Geo. <u>Howell Crenshaw</u>	Cont. <u>Emphasis Rig #6</u>	Est. Ft. of Pay <u>8 to 10 ft.</u>
Location: Sec. <u>6</u>	Twp. <u>10S</u>	Rge. <u>26W</u> Co. <u>Sheridan</u> State <u>Ks.</u>
No. of Copies <u>8</u>	Distribution Sheet <u>Yes</u>	Turnkey <u>Yes</u>

Interval Tested <u>3847-3891</u>	Drill Pipe Size <u>4 1/2 XH</u>
Anchor Length <u>44</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>3842</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth <u>3847</u>	Wt. Pipe I.D. — 2.7 Ft. Run
Total Depth <u>3891</u>	Drill Collar — 2.25 Ft. Run
Mud Wt. <u>8.9</u> lb/gal.	Viscosity <u>46</u> Filtrate <u>8.9</u>
Tool Open @ <u>10:16 pm</u>	Initial Blow <u>Weak surface blow increasing to a weak 1" blow</u>
Final Blow <u>Very weak surface blow</u>	

Recovery — Total Feet <u>10</u>	Flush Tool? <u></u>
Rec. <u>10</u> Feet of <u>Only mud</u>	
Rec. <u></u> Feet of <u></u>	
Rec. <u></u> Feet of <u></u>	
Rec. <u></u> Feet of <u></u>	
Rec. <u></u> Feet of <u></u>	

BHT <u>110</u> °F	Gravity <u></u> °API @ <u></u> °F	Corrected Gravity <u></u> °API
RW <u></u> @ <u></u> °F	Chlorides <u></u> ppm	Recovery <u></u> Chlorides <u></u> ppm System
(A) Initial Hydrostatic Mud <u>1918</u>	PSI	AK1 Recorder No. <u>13851</u> Range <u>4425</u>
(B) First Initial Flow Pressure <u>44</u>	PSI	@ (depth) <u>3851</u> W/Clock No. <u>31134</u>
(C) First Final Flow Pressure <u>44</u>	PSI	AK1 Recorder No. <u>13850</u> Range <u>4425</u>
(D) Initial Shut-In Pressure <u>882</u>	PSI	@ (depth) <u>3888</u> W/Clock No. <u>30401</u>
(E) Second Initial Flow Pressure <u>44</u>	PSI	AK1 Recorder No. <u></u> Range <u></u>
(F) Second Final Flow Pressure <u>44</u>	PSI	@ (depth) <u></u> W/Clock No. <u></u>
(G) Final Shut-In Pressure <u>882</u>	PSI	Initial Opening <u>15</u> Test <u>400%</u>
(H) Final Hydrostatic Mud <u>1894</u>	PSI	Initial Shut-In <u>15</u> Jars <u>X</u>
		Final Flow <u>15</u> Safety Joint <u>X</u>
		Final Shut-In <u>15</u> Straddle <u></u>

Approved By Howell Crenshaw

Our Representative Carl F. Hoff

Printcraft Printers - Hays, KS

Circ. Sub X
 Sampler
 Extra Packer
 Other
 TOTAL PRICE \$

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. <u>HAFFNER #1</u>	Test No. <u>2</u>	Date <u>5/3/90</u>
Company <u>NATIONAL PETROLEUM RESERVES INC</u>	Zone Tested <u>LANSING-KS CITY</u>	
Address <u>250 N ROCK RD SWT 340 WICHITA KS</u>	Elevation <u>2627 KB</u>	
Co. Rep./Geo. <u>MR HOWELL CRENSHAW</u>	Cont. <u>EMPHASIS RIG #6</u>	Est. Ft. of Pay <u>0</u>
Location: Sec. <u>6</u>	Twp. <u>10S</u>	Rge. <u>26W</u> Co. <u>SHERIDAN</u> State <u>KANSAS</u>

Interval Tested <u>3890-3940</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>50</u>	Top Choke — 1" <u>Bottom Choke — 3/4"</u>
Top Packer Depth <u>3885</u>	Hole Size — 77/8" <u>Rubber Size — 63/4"</u>
Bottom Packer Depth <u>3890</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>0</u>
Total Depth <u>3940</u>	Drill Collar — 2.25 Ft. Run <u>0</u>
Mud Wt. <u>8.9</u> lb/gal.	Viscosity <u>45</u> Filtrate <u>8.0</u>
Tool Open @ <u>12:36 PM</u> Initial Blow <u>1/2" BLOW INCREASING TO A FAIR 5.5"</u>	
<u>BLOW</u>	
Final Blow <u>1/2" BLOW INCREASING TO A FAIR 4" BLOW</u>	

Recovery — Total Feet <u>110</u>	Flush Tool? <u></u>
Rec. <u>110</u> Feet of <u>MUD -SLIGHTLY WATER CUT</u>	
Rec. <u>0</u> Feet of <u></u>	
Rec. <u>0</u> Feet of <u></u>	
Rec. <u>0</u> Feet of <u></u>	
Rec. <u>0</u> Feet of <u></u>	
BHT <u>115</u> °F Gravity <u></u> °API @ <u>0</u> °F Corrected Gravity <u>0</u> °API	
RW <u>.695</u> @ <u>47.5</u> °F Chlorides <u>14000</u> ppm Recovery Chlorides <u>2000</u> ppm System	
(A) Initial Hydrostatic Mud <u>1975.6</u> PSI AK1 Recorder No. <u>13851</u> Range <u>4425</u>	
(B) First Initial Flow Pressure <u>35.6</u> PSI @ (depth) <u>3893</u> w/Clock No. <u>31154</u>	
(C) First Final Flow Pressure <u>60.2</u> PSI AK1 Recorder No. <u>13850</u> Range <u>4325</u>	
(D) Initial Shut-In Pressure <u>1174.5</u> PSI @ (depth) <u>3937</u> w/Clock No. <u>30401</u>	
(E) Second Initial Flow Pressure <u>62.3</u> PSI AK1 Recorder No. <u>0</u> Range <u>0</u>	
(F) Second Final Flow Pressure <u>74.8</u> PSI @ (depth) <u>0</u> w/Clock No. <u>0</u>	
(G) Final Shut-In Pressure <u>1151.2</u> PSI Initial Opening <u>30</u>	
(H) Final Hydrostatic Mud <u>1920.6</u> PSI Initial Shut-In <u>30</u>	
	Final Flow <u>30</u>
	Final Shut-In <u>30</u>

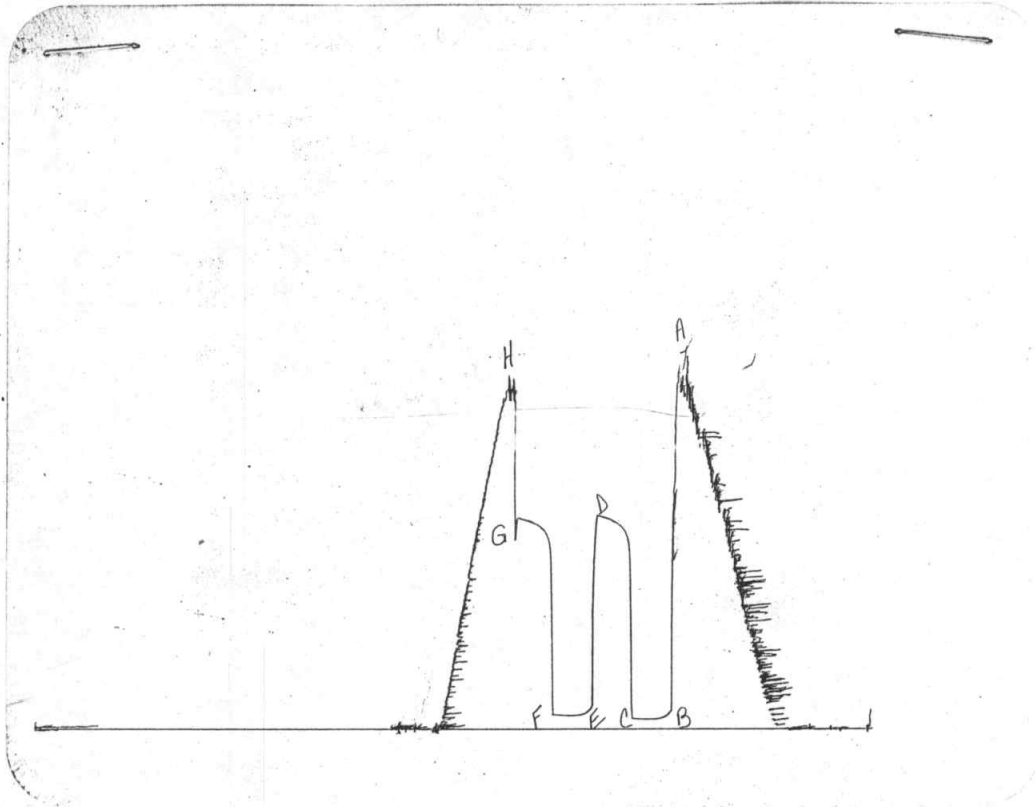
MR CARL F GOFF

400

Our Representative

TOTAL PRICE \$

DST# 2 RECORDER# 13850



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud.....	1973	1975.6 PSI
(B) First Initial Flow Pressure.....	33	35.6 PSI
(C) First Final Flow Pressure.....	55	60.2 PSI
(D) Initial Closed-In Pressure.....	1167	1174.5 PSI
(E) Second Initial Flow Pressure.....	55	62.3 PSI
(F) Second Final Flow Pressure.....	66	74.8 PSI
(G) Final Closed-In Pressure.....	1145	1151.2 PSI
(H) Final Hydrostatic Mud.....	1918	1920.6 PSI

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

Nº 2847

Well Name & No. <u>Haffer #1</u>	Test No. <u>2</u>	Date <u>5/3/90</u>
Company <u>National Petroleum Reserves Inc.</u>	Zone Tested <u>LHC '50'</u>	
Address <u>250 N. Rock Rd. #340 Wichita, Ks. 67209</u>	Elevation <u>2627 KB</u>	
Co. Rep. / Geo. <u>J.C. Bredehoft / Howell</u>	Cont. <u>Emphasis Rig #6</u>	Est. Ft. of Pay _____
Location: Sec. <u>6</u>	Twp. <u>10S</u>	Rge. <u>26W</u>
	Co. <u>Shawnee</u>	State <u>Ks.</u>
No. of Copies <u>8</u>	Distribution Sheet _____	Yes ☒ No ☐
	Turnkey _____	Yes ☒ No ☐

Interval Tested 3890-3940 Drill Pipe Size 4 1/2 XH

Anchor Length 50 Top Choke — 1" Bottom Choke — 3/4"

Top Packer Depth 3885 Hole Size — 7 7/8" Rubber Size — 6 3/4"

Bottom Packer Depth 3890 Wt. Pipe I.D. — 2.7 Ft. Run _____

Total Depth 3940 Drill Collar — 2.25 Ft. Run _____

Mud Wt. 8.9 lb/gal. Viscosity 45 Filtrate 8.9

Tool Open @ 12:36 pm Initial Blow 1/2" blow increasing to a fair 5 1/2" blow

Final Blow 1/2" blow increasing to a fair 4" blow

Recovery — Total Feet 110 Flush Tool? _____

Rec. 110 Feet of Mud / slightly Wtr. Cut

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 115 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW .695 @ 47.5 °F Chlorides 14,000 ppm Recovery Chlorides 2,000 ppm System

(A) Initial Hydrostatic Mud 1923 PSI Ak1 Recorder No. 13851 Range 4425

(B) First Initial Flow Pressure 33 PSI @ (depth) 3893 w/Clock No. 31134

(C) First Final Flow Pressure 55 PSI AK1 Recorder No. 13850 Range 4325

(D) Initial Shut-In Pressure 1147 PSI @ (depth) 3937 w/Clock No. 30401

(E) Second Initial Flow Pressure 55 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 66 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 1145 PSI Initial Opening 30 Test 400 cc

(H) Final Hydrostatic Mud 1918 PSI Initial Shut-In 30 Jars X

Final Flow 30 Safety Joint X

Final Shut-In 30 Straddle _____

Approved By K. Buhler

Our Representative Carl D. Goff

Printcraft Printers - Hays, KS

Circ. Sub X

Sampler _____

Extra Packer _____

Other _____

TOTAL PRICE \$ _____

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. <u>HAFFNER #1</u>	Test No. <u>3</u>	Date <u>5/4/90</u>
Company <u>NATIONAL PETROLEUM RESERVES INC</u>	Zone Tested <u>LANSING-KS CITY</u>	
Address <u>250 N ROCK RD SWT 340 WICHITA KS</u>	Elevation <u>2627 KB</u>	
Co. Rep./Geo. <u>MR HOWELL CRENSHAW</u>	Cont. <u>EMPHASIS RIG #6</u>	Est. Ft. of Pay <u>0</u>
Location: Sec. <u>6</u>	Twp. <u>10S</u>	Rge. <u>26W</u> Co. <u>SHERIDAN</u> State <u>KANSAS</u>

Interval Tested <u>3980-4004</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>24</u>	Top Choke — 1" <u>Bottom Choke — 3/4"</u>
Top Packer Depth <u>3975</u>	Hole Size — 77/8" <u>Rubber Size — 63/4"</u>
Bottom Packer Depth <u>3980</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>0</u>
Total Depth <u>4004</u>	Drill Collar — 2.25 Ft. Run <u>0</u>
Mud Wt. <u>8.9</u> lb/gal.	Viscosity <u>45</u> Filtrate <u>8.0</u>
Tool Open @ <u>4:37 AM</u> Initial Blow <u>WEAK SURFACE BLOW INCREASED TO A</u>	
<u>WEAK 1/2" BLOW</u>	
Final Blow <u>1/2" BLOW</u>	

Recovery — Total Feet <u>10</u>	Flush Tool? <u></u>
Rec. <u>10</u> Feet of <u>MUD WITH FEW OIL SPECKS</u>	
Rec. <u>0</u> Feet of <u></u>	
Rec. <u>0</u> Feet of <u></u>	
Rec. <u>0</u> Feet of <u></u>	
Rec. <u>0</u> Feet of <u></u>	

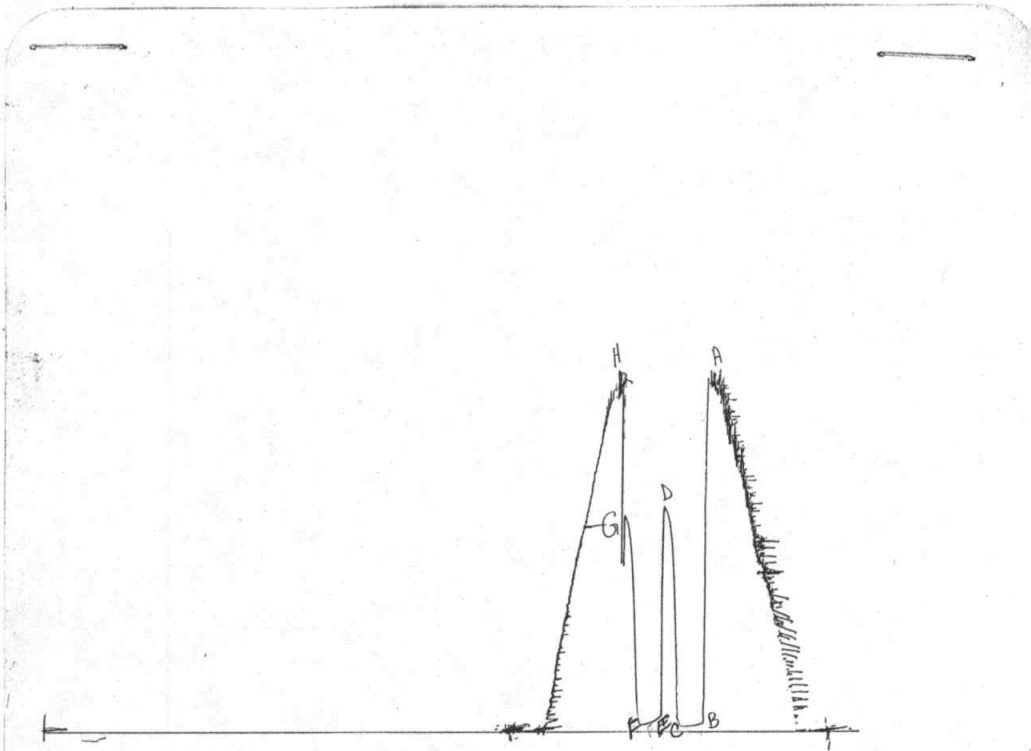
BHT <u>109</u> °F	Gravity <u></u> °API @ <u>0</u> °F	Corrected Gravity <u>0</u> °API
RW <u></u> @ <u></u> °F	Chlorides <u></u> ppm	Recovery Chlorides <u>2000</u> ppm System
(A) Initial Hydrostatic Mud <u>1981.4</u> PSI	AK1 Recorder No. <u>13851</u>	Range <u>4425</u>
(B) First Initial Flow Pressure <u>20.3</u> PSI	@ (depth) <u>3982</u>	w/Clock No. <u>31154</u>
(C) First Final Flow Pressure <u>34.9</u> PSI	AK1 Recorder No. <u>13850</u>	Range <u>4325</u>
(D) Initial Shut-In Pressure <u>1244.9</u> PSI	@ (depth) <u>4001</u>	w/Clock No. <u>30401</u>
(E) Second Initial Flow Pressure <u>30.9</u> PSI	AK1 Recorder No. <u>0</u>	Range <u>0</u>
(F) Second Final Flow Pressure <u>32.4</u> PSI	@ (depth) <u>0</u>	w/Clock No. <u>0</u>
(G) Final Shut-In Pressure <u>1201.3</u> PSI	Initial Opening <u>15</u>	
(H) Final Hydrostatic Mud <u>1955.6</u> PSI	Initial Shut-In <u>15</u>	
	Final Flow <u>15</u>	
	Final Shut-In <u>15</u>	

MR CARL F GOFF

400

Our Representative

TOTAL PRICE \$

DST# 3RECORDER# 13850

This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud.....	1973	1981.4
(B) First Initial Flow Pressure.....	22	20.3
(C) First Final Flow Pressure.....	33	34.9
(D) Initial Closed-In Pressure.....	1244	1244.9
(E) Second Initial Flow Pressure.....	33	30.9
(F) Second Final Flow Pressure.....	33	32.4
(G) Final Closed-In Pressure.....	1200	1201.3
(H) Final Hydrostatic Mud.....	1951	1955.6

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

N^o 2848

Well Name & No. <u>Haffner #1</u>	Test No. <u>3</u>	Date <u>5/4/90</u>
Company <u>National Petroleum Reserves Inc.</u>	Zone Tested <u>LKC 140</u>	
Address <u>250 N. Rock Rd. #340 Wichita, Ks. 67206</u>	Elevation <u>2427 KB</u>	
Co. Rep. / Geo. <u>TC. Brodshoff / Howell</u>	Cont. <u>Emphasis Rig #6</u>	Est. Ft. of Pay _____
Location: Sec. <u>6</u>	Twp. <u>10S</u>	Rge. <u>26W</u> Co. <u>Sheridan</u> State <u>KS.</u>
No. of Copies <u>8</u>	Distribution Sheet _____	Yes ☐ No ☒ Turnkey _____
		Yes ☐ No ☒

Interval Tested 3980-4004 Drill Pipe Size 4 1/2 XH
 Anchor Length 24 Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 3975 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 3980 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 4004 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 8.9 lb/gal. Viscosity 45 Filtrate 8.9
 Tool Open @ 4:37 AM Initial Blow Weak surface blow increased to weak 1/2" blow
 Final Blow Weak 1/2" blow

Recovery — Total Feet 10' Flush Tool? _____
 Rec. 10' Feet of Mud w/ a few oil specks
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 BHT 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2,000 ppm System
 (A) Initial Hydrostatic Mud 1973 PSI Ak1 Recorder No. 13851 Range 4425
 (B) First Initial Flow Pressure 22 PSI @ (depth) 3982 W/Clock No. 31154
 (C) First Final Flow Pressure 33 PSI Ak1 Recorder No. 13850 Range 4325
 (D) Initial Shut-In Pressure 1244 PSI @ (depth) 4001 W/Clock No. 30401
 (E) Second Initial Flow Pressure 33 PSI Ak1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 33 PSI @ (depth) _____ W/Clock No. _____
 (G) Final Shut-In Pressure 1200 PSI Initial Opening 15 Test 400 °F
 (H) Final Hydrostatic Mud 1951 PSI Initial Shut-In 15 Jars X
 Final Flow 15 Safety Joint X
 Final Shut-In 15 Straddle _____
 Circ. Sub X
 Sampler _____
 Extra Packer _____
 Other _____

Approved By _____

Our Representative Carl F. Hoff

Printcraft Printers - Hays, KS

TOTAL PRICE \$ _____

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	HAFFNER #1	Test No.	4	Date	5/4/90
Company	NATIONAL PETROLEUM RESERVES INC	Zone Tested	LANSING-KS CITY		
Address	250 N ROCK RD SWT 340 WICHITA KS	Elevation	2627 KB		
Co. Rep./Geo.	MR HOWELL CRENSHAW	Cont.	EMPHASIS RIG #6	Est. Ft. of Pay	0
Location: Sec.	6	Twp.	10S	Rge.	26W
Co.	SHERIDAN	state	KANSAS		

Interval Tested	4000-4062	Drill Pipe Size	4.5" XH			
Anchor Length	62	Top Choke — 1"	Bottom Choke — ¾"			
Top Packer Depth	3995	Hole Size — 7 ⁷ / ₈ "	Rubber Size — 6 ³ / ₄ "			
Bottom Packer Depth	4000	Wt. Pipe I.D. — 2.7 Ft. Run	0			
Total Depth	4062	Drill Collar — 2.25 Ft. Run	0			
Mud Wt.	8.9	lb / gal.	Viscosity	48	Filtrate	7.2
Tool Open @	6:05 PM	Initial Blow	WEAK 1/4" BLOW			

Final Blow WEAK SURFACE BLOW

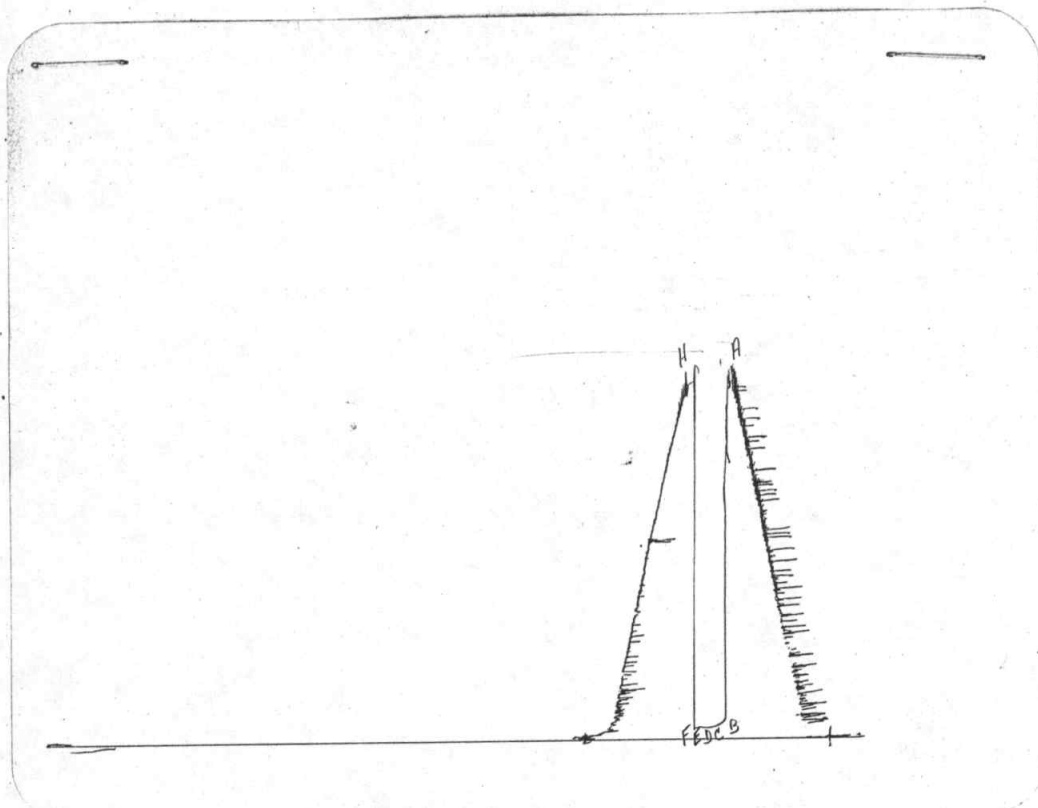
Recovery — Total Feet	2	Flush Tool?							
Rec.	2	Feet of	MUD WITH SHOW OF OIL						
Rec.	0	Feet of							
Rec.	0	Feet of							
Rec.	0	Feet of							
Rec.	0	Feet of							
BHT	110	°F Gravity		°API @	0	°F Corrected Gravity	0	°API	
RW		@		°F Chlorides		ppm Recovery	Chlorides	2000	ppm System
(A) Initial Hydrostatic Mud	2020.3	PSI	AK1 Recorder No.	13851	Range	4425			
(B) First Initial Flow Pressure	45.6	PSI	@ (depth)	4036	w/Clock No.	31154			
(C) First Final Flow Pressure	46.1	PSI	AK1 Recorder No.	13850	Range	4325			
(D) Initial Shut-In Pressure	60.2	PSI	@ (depth)	4059	w/Clock No.	30401			
(E) Second Initial Flow Pressure	44.9	PSI	AK1 Recorder No.	0	Range	0			
(F) Second Final Flow Pressure	48.7	PSI	@ (depth)	0	w/Clock No.	0			
(G) Final Shut-In Pressure	0	PSI	Initial Opening	10					
(H) Final Hydrostatic Mud	1990.1	PSI	Initial Shut-In	10					
			Final Flow	5					
			Final Shut-In	0					

MR CARL F GOFF

400

Our Representative _____

TOTAL PRICE \$ _____

DST# 4RECORDER# 13850

This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud.....	2017	2020.3 PSI
(B) First Initial Flow Pressure.....	44	45.6 PSI
(C) First Final Flow Pressure.....	44	46.1 PSI
(D) Initial Closed-In Pressure.....	55	60.2 PSI
(E) Second Initial Flow Pressure.....	44	44.9 PSI
(F) Second Final Flow Pressure.....	44	48.7 PSI
(G) Final Closed-In Pressure.....	0	0 PSI
(H) Final Hydrostatic Mud.....	1984	1990.1 PSI

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

Nº 2849

Well Name & No. <u>HaPner #1</u>	Test No. <u>4</u>	Date <u>5/4/90</u>
Company <u>National Petroleum Reserves Inc.</u>	Zone Tested <u>LHC '140-200'</u>	
Address <u>250 N. Rock Rd. #40 Wichita Ks. 67206</u>	Elevation <u>2627 KB</u>	
Co. Rep. / Geo. <u>T. Bruckhoff / Howell</u>	Cont. <u>Emphasis Rig #6</u>	Est. Ft. of Pay _____
Location: Sec. <u>4</u>	Twp. <u>10S</u>	Rge. <u>26W</u>
Co. <u>Sheridan</u>		State <u>Ks.</u>
No. of Copies <u>8</u>	Distribution Sheet _____	Yes ☒ No ☐ Turnkey _____
Yes ☒ No ☐		Yes ☒ No ☐

Interval Tested <u>4000-4062</u>	Drill Pipe Size <u>4 1/2 XH</u>
Anchor Length <u>42</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3995</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>4000</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>4062</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>8.9</u> lb/gal.	Viscosity <u>48</u> Filtrate <u>2.2</u>
Tool Open @ <u>6:05 pm</u>	Initial Blow <u>Weak 1/4" blow</u>
Final Blow <u>Weak surface blow</u>	

Recovery — Total Feet <u>2</u>	Flush Tool? _____
Rec. <u>2</u> Feet of <u>mud w/ skin of oil</u>	
Rec. _____ Feet of _____	
Rec. _____ Feet of _____	
Rec. _____ Feet of _____	
Rec. _____ Feet of _____	
BHT <u>110</u> °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API	
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides <u>2000</u> ppm System	
(A) Initial Hydrostatic Mud <u>2017</u> PSI AK1 Recorder No. <u>13851</u> Range <u>4425</u>	
(B) First Initial Flow Pressure <u>44</u> PSI @ (depth) <u>4036</u> w/Clock No. <u>31154</u>	
(C) First Final Flow Pressure <u>44</u> PSI AK1 Recorder No. <u>13850</u> Range <u>4325</u>	
(D) Initial Shut-In Pressure <u>55</u> PSI @ (depth) <u>4059</u> w/Clock No. <u>30401</u>	
(E) Second Initial Flow Pressure <u>44</u> PSI AK1 Recorder No. _____ Range _____	
(F) Second Final Flow Pressure <u>44</u> PSI @ (depth) _____ w/Clock No. _____	
(G) Final Shut-In Pressure _____ PSI Initial Opening <u>10</u> Test <u>400</u>	
(H) Final Hydrostatic Mud <u>1984</u> PSI Initial Shut-In <u>10</u> Jars <u>X</u>	
Final Flow <u>5</u> Safety Joint <u>X</u>	
Final Shut-In _____ Straddle _____	

Approved By T. Bruckhoff

Our Representative Carl Z. Goff

Printcraft Printers - Hays, KS

Circ. Sub X
 Sampler _____
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ _____

TRILOBITE TESTING COMPANY

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Drill-Stem Test Data

Well Name & No.	HAFFNER #1	Test No.	5	Date	5/6/90
Company	NATIONAL PETROLEUM RESERVES INC	Zone Tested	FT SCOTT-CHEROKEE		
Address	250 N ROCK RD SWT 340 WICHITA KS	Elevation	2627 KB		
Co. Rep./Geo.	MR HOWELL CRENSHAW	Cont.	EMPHASIS RIG #6	Est. Ft. of Pay	0
Location: Sec.	6	Twp.	10S	Rge.	26W
Co.	SHERIDAN	State	KANSAS		

Interval Tested	4270-4360	Drill Pipe Size	4.5" XH			
Anchor Length	90	Top Choke — 1"	Bottom Choke — ¾"			
Top Packer Depth	4265	Hole Size — 77/8"	Rubber Size — 63/4"			
Bottom Packer Depth	4270	Wt. Pipe I.D. — 2.7 Ft. Run	0			
Total Depth	4360	Drill Collar — 2.25 Ft. Run	0			
Mud Wt.	9.3	lb/gal.	Viscosity	50	Filtrate	7.2
Tool Open @	2:05 AM	Initial Blow	WEAK SURFACE BLOW INCREASED TO A WEAK 1/2" BLOW			
Final Blow	WEAK 1/2" BLOW					

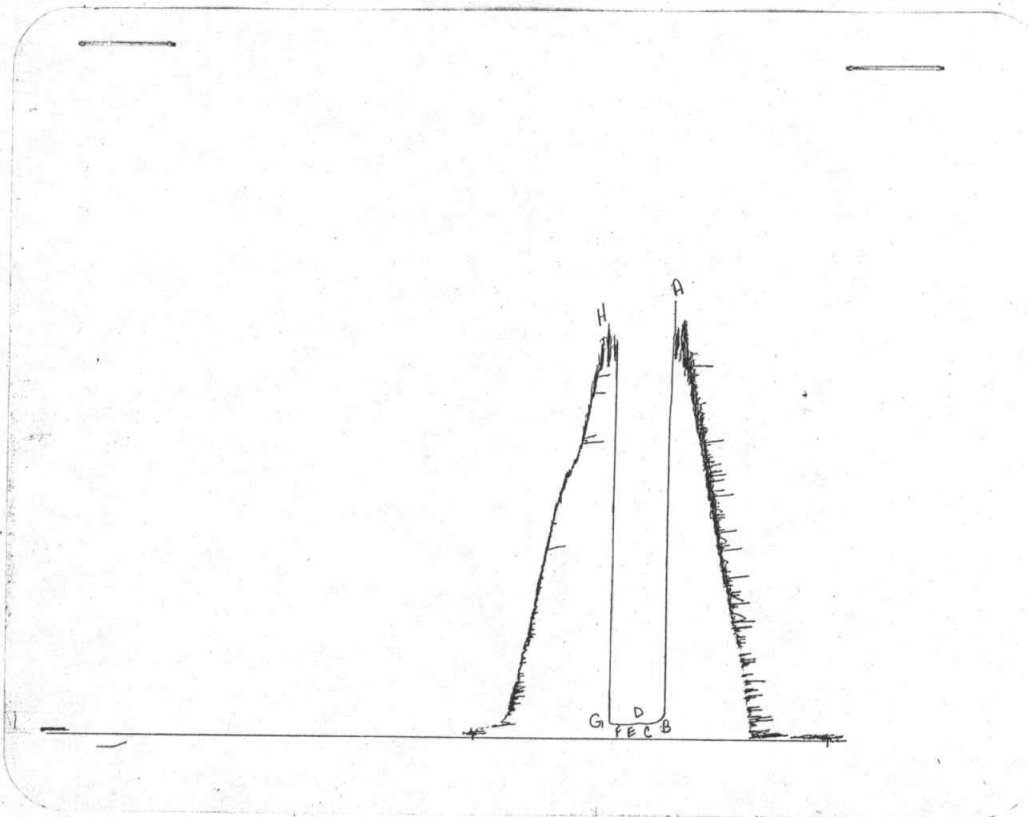
Recovery — Total Feet	5	Flush Tool?							
Rec.	5	Feet of	MUD						
Rec.	0	Feet of							
Rec.	0	Feet of							
Rec.	0	Feet of							
Rec.	0	Feet of							
BHT	116	°F Gravity		°API @	0	°F Corrected Gravity	0	°API	
RW	@	°F Chlorides		ppm Recovery		Chlorides	2000	ppm System	
(A) Initial Hydrostatic Mud		2290.3	PSI	AK1 Recorder No.	13851	Range		4425	
(B) First Initial Flow Pressure		60.2	PSI	@ (depth)	4333	w/Clock No.		31154	
(C) First Final Flow Pressure		59.8	PSI	AK1 Recorder No.	13850	Range		4325	
(D) Initial Shut-In Pressure		78.1	PSI	@ (depth)	4357	w/Clock No.		30401	
(E) Second Initial Flow Pressure		54.9	PSI	AK1 Recorder No.	0	Range		0	
(F) Second Final Flow Pressure		61.2	PSI	@ (depth)	0	w/Clock No.		0	
(G) Final Shut-In Pressure		74.5	PSI	Initial Opening	10				
(H) Final Hydrostatic Mud		2230.1	PSI	Initial Shut-In	10				
				Final Flow	10				
				Final Shut-In	10				

MR CARL F GOFF

400

Our Representative _____

TOTAL PRICE \$ _____

DST# 5RECORDER# 13850

This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud.....	2285	2290.3
(B) First Initial Flow Pressure.....	55	60.2
(C) First Final Flow Pressure.....	55	59.8
(D) Initial Closed-In Pressure.....	77	78.1
(E) Second Initial Flow Pressure.....	55	54.9
(F) Second Final Flow Pressure.....	55	61.2
(G) Final Closed-In Pressure.....	66	74.5
(H) Final Hydrostatic Mud.....	2229	2230.1

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

Nº 2850

Well Name & No. <u>Haffner #1</u>	Test No. <u>5</u>	Date <u>5/6/90</u>
Company <u>National Petroleum Reserves Inc.</u>	Zone Tested <u>Ft. Scott Chap.</u>	
Address <u>250 W. Rock Rd. #340 Wichita Ks. 67206</u>	Elevation <u>2627 KB</u>	
Co. Rep. / Geo. <u>Brudshott / Howell</u>	Cont. <u>Emphasis Rig #4</u>	Est. Ft. of Pay _____
Location: Sec. <u>6</u>	Twp. <u>10S</u>	Rge. <u>26W</u> Co. <u>Sheridan</u> State <u>Ks.</u>
No. of Copies <u>8</u>	Distribution Sheet _____	Yes ☒ No ☐ Turnkey _____ Yes ☒ No ☐

Interval Tested 4270-4360 Drill Pipe Size 4 1/2 X 14
 Anchor Length 90 Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 4265 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 4270 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 4360 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 9.3 lb/gal. Viscosity 50 Filtrate 7.3
 Tool Open @ 2:05 a.m. Initial Blow Weak surface blow increased to a weak 1/2" blow
 Final Blow Weak 1/2" blow

Recovery — Total Feet 5 Flush Tool? _____
 Rec. 5 Feet of mud
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 BHT 116 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2000 ppm System
 (A) Initial Hydrostatic Mud 2285 PSI AK1 Recorder No. 13857 Range 4425
 (B) First Initial Flow Pressure 55 PSI @ (depth) 4333 w/Clock No. 31154
 (C) First Final Flow Pressure 55 PSI AK1 Recorder No. 13850 Range 4325
 (D) Initial Shut-In Pressure 22 PSI @ (depth) 4357 w/Clock No. 30401
 (E) Second Initial Flow Pressure 55 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 55 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 66 PSI Initial Opening 10 Test 400 °F
 (H) Final Hydrostatic Mud 2229 PSI Initial Shut-In 10 Jars X
 Final Flow 10 Safety Joint X
 Final Shut-In 10 Straddle _____
 Circ. Sub X
 Sampler _____
 Extra Packer _____
 Other _____

Approved By RBudshott

Our Representative Carl D. Soff