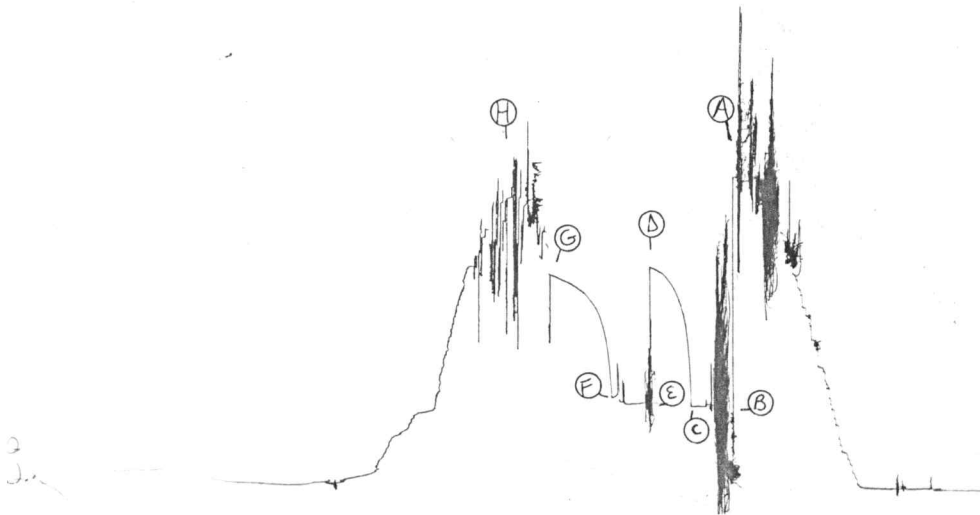


TKT # 16398

I



Company H-30, Inc. & Blackhawk Exploration, Inc. Lease & Well No. #1 DeGeer

Elevation ---- Formation ---- Effective Pay ---- Ft. Ticket No. 16398

Date 9/12/82 Sec. 3 Twp. 33S Range 15W County Barber State Kansas

Test Approved by Terry L. McLeod Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 3233 ft. to 3292 ft. Total Depth 3292 ft.

Packer Depth 3228 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3233 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3249 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 3252 ft. Recorder Number 3351 Cap. 4000

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor H-30 Drlg. Rig #77 Drill Collar Length 495 I. D. 2 1/4 in.

Mud Type premix Viscosity 33 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 18.4 cc. Drill Pipe Length 3714 I. D. 3.8 in.

Chlorides 45,000 P.P.M. Test Tool Length 24 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 59 ft. Size 5 1/2 OD

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: Fair increased to strong blow on initial flow period. Weak blow throughout final flow period.

Recovered 660 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Packer leakage.

Time Set Packer(s) 8:00 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 10:15 ~~P.M.~~ ^{A.M.} Maximum Temperature 109°

Initial Hydrostatic Pressure 1674 P.S.I. (A)

Initial Flow Period 30 Minutes (B) 449 * P.S.I. to (C) 449 * P.S.I.

Initial Closed In Period 30 Minutes (D) 1200 P.S.I.

Final Flow Period 30 Minutes (E) 460 * P.S.I. to (F) 497 * P.S.I.

Final Closed In Period 45 Minutes (G) 1159 P.S.I.

Final Hydrostatic Pressure 1546 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 9/12/82 Test Ticket No. 16398
Recorder No. 2607 Capacity 4150 Location 3249 Ft.
Clock No. - Elevation - Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1674</u> P.S.I.	Open Tool	<u>8:00A</u> M	
B First Initial Flow Pressure	<u>449*</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>449*</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1200</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>460*</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>497*</u> P.S.I.			
G Final Closed-in Pressure	<u>1159</u> P.S.I.			
H Final Hydrostatic Mud	<u>1546</u> P.S.I.			

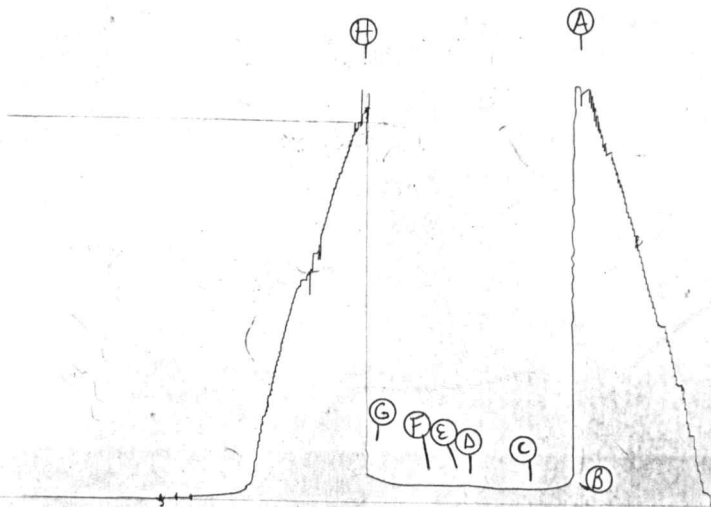
*Pressures questionable due to packer leak.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>15</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>449*</u>	<u>0</u>	<u>449*</u>	<u>0</u>	<u>460*</u>	<u>0</u>	<u>497*</u>
P 2 <u>5</u>	<u>449*</u>	<u>3</u>	<u>770</u>	<u>5</u>	<u>460*</u>	<u>3</u>	<u>841</u>
P 3 <u>10</u>	<u>449*</u>	<u>6</u>	<u>931</u>	<u>10</u>	<u>460*</u>	<u>6</u>	<u>922</u>
P 4 <u>15</u>	<u>449*</u>	<u>9</u>	<u>1009</u>	<u>15</u>	<u>460*</u>	<u>9</u>	<u>972</u>
P 5 <u>20</u>	<u>449*</u>	<u>12</u>	<u>1067</u>	<u>20</u>	<u>469*</u>	<u>12</u>	<u>1005</u>
P 6 <u>25</u>	<u>449*</u>	<u>15</u>	<u>1106</u>	<u>25</u>	<u>506*</u>	<u>15</u>	<u>1036</u>
P 7 <u>30</u>	<u>449*</u>	<u>18</u>	<u>1138</u>	<u>30</u>	<u>497*</u>	<u>18</u>	<u>1064</u>
P 8		<u>21</u>	<u>1162</u>			<u>21</u>	<u>1076</u>
P 9		<u>24</u>	<u>1176</u>			<u>24</u>	<u>1094</u>
P10		<u>27</u>	<u>1189</u>			<u>27</u>	<u>1107</u>
P11		<u>30</u>	<u>1200</u>			<u>30</u>	<u>1118</u>
P12						<u>33</u>	<u>1126</u>
P13						<u>36</u>	<u>1137</u>
P14						<u>39</u>	<u>1147</u>
P15						<u>42</u>	<u>1155</u>
P16						<u>45</u>	<u>1159</u>
P17							
P18							
P19							
P20							

TKT # 16399

I



Company H-30, Inc. & Blackhawk Exploration, Inc. Lease & Well No. #1 DeGeer
Elevation ---- Formation Douglas Sand Effective Pay ---- Ft. Ticket No. 16399
Date 9/ 15 /82 Sec. 3 Twp. 33S Range 15W County Barber State Kansas
Test Approved by Terry L. McLeod Western Representative Jim Wondra
Formation Test No. 2 Interval Tested from 4178 ft. to 4310 ft. Total Depth 4310 ft.
Packer Depth 4173 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 4178 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4198 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 4201 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor H-30 Drlg. Rig #77 Drill Collar Length 401 I. D. 2 1/4 in.
Mud Type drispac Viscosity 46 Weight Pipe Length - I. D. - in.
Weight 9.3 Water Loss 7.4 cc. Drill Pipe Length 3748 I. D. 3.8 in.
Chlorides 15,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 410 Anchor Length 132 ft. Size 5 1/2 OD
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: Weak blow throughout initial flow period. Final flow period weak blow and died in ten minutes.

Recovered 90 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 3:45 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 6:15 ~~P.M.~~ ^{A.M.} Maximum Temperature 123°
Initial Hydrostatic Pressure 2213 P.S.I.
Initial Flow Period 30 Minutes (B) 86 P.S.I. to (C) 86 P.S.I.
Initial Closed In Period 45 Minutes (D) 104 P.S.I.
Final Flow Period 30 Minutes (E) 100 P.S.I. to (F) 100 P.S.I.
Final Closed In Period 45 Minutes (G) 153 P.S.I.
Final Hydrostatic Pressure 2095 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 9/15/82 Test Ticket No. 16399
 Recorder No. 2607 Capacity 4150 Location 4198 Ft.
 Clock No. -- Elevation -- Well Temperature 123 °F

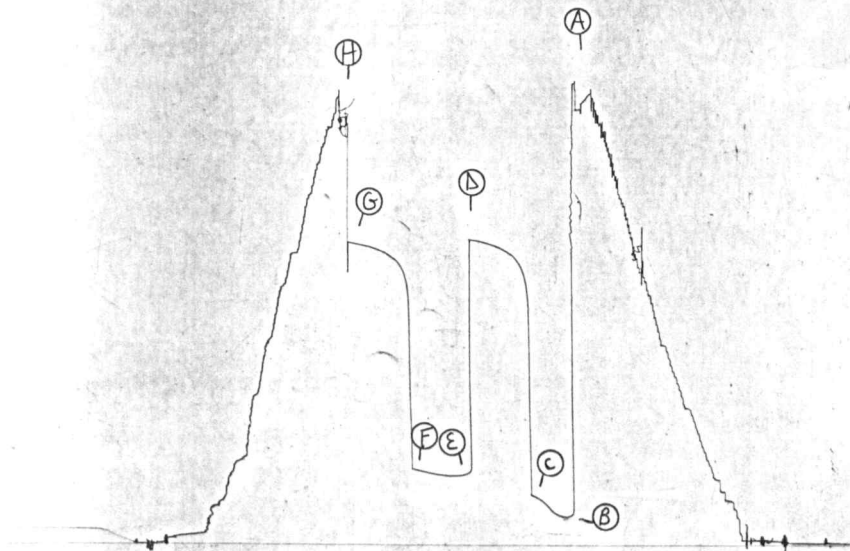
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2213 P.S.I.	3:45A	M
B First Initial Flow Pressure	86 P.S.I.	30 Mins	30 Mins.
C First Final Flow Pressure	86 P.S.I.	45 Mins	45 Mins.
D Initial Closed-in Pressure	104 P.S.I.	30 Mins	30 Mins.
E Second Initial Flow Pressure	100 P.S.I.	45 Mins	45 Mins.
F Second Final Flow Pressure	100 P.S.I.		
G Final Closed-in Pressure	153 P.S.I.		
H Final Hydrostatic Mud	2095 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>15</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>	86	0	86	0	100	0	100
P 2 <u>5</u>	86	3	86	5	100	3	100
P 3 <u>10</u>	86	6	86	10	100	6	100
P 4 <u>15</u>	86	9	86	15	100	9	100
P 5 <u>20</u>	86	12	87	20	100	12	100
P 6 <u>25</u>	86	15	88	25	100	15	100
P 7 <u>30</u>	86	18	89	30	100	18	102
P 8		21	90			21	105
P 9		24	91			24	108
P10		27	92			27	111
P11		30	93			30	114
P12		33	95			33	121
P13		36	97			36	129
P14		39	99			39	136
P15		42	101			42	146
P16		45	104			45	153
P17							
P18							
P19							
P20							

TKT # 16400

I



Company H-30, Inc. & Blackhawk Exploration, Inc. Lease & Well No. #1 DeGeer
Elevation ---- Formation Kansas City Effective Pay ---- Ft. Ticket No. 16400
Date 9/16/82 Sec. 3 Twp. 33S Range 15W County Barber State Kansas
Test Approved by Terry L. McLeod Western Representative Jim Wondra
Formation Test No. 3 Interval Tested from 4614 ft. to 4670 ft. Total Depth 4670 ft.
Packer Depth 4609 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 4614 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4627 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 4630 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor H-30 Drlg. Rig #77 Drill Collar Length 401 I. D. 2 1/4 in.
Mud Type drispac Viscosity 46 Weight Pipe Length - I. D. - in.
Weight 9.3 Water Loss 16.0 cc. Drill Pipe Length 4120 I. D. 3.8 in.
Chlorides 22,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 410 Anchor Length 56 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: Fair blow throughout both flow periods.

Recovered 150 ft. of muddy water

Recovered 600 ft. of salt water Chlorides 105,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 9:00 ~~A.M.~~ P.M. Time Started Off Bottom 11:45 ~~A.M.~~ P.M. Maximum Temperature 126°
Initial Hydrostatic Pressure 2340 (A) P.S.I.
Initial Flow Period 30 Minutes (B) 150 P.S.I. to (C) 270 P.S.I.
Initial Closed In Period 48 Minutes (D) 1642 P.S.I.
Final Flow Period 45 Minutes (E) 374 P.S.I. to (F) 413 P.S.I.
Final Closed In Period 45 Minutes (G) 1625 P.S.I.
Final Hydrostatic Pressure 2328 (H) P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 9/16/82

Test Ticket No. 16400

Recorder No. 2607

Capacity 4150

Location 4627 Ft.

Clock No. --- Elevation ----

Well Temperature 126 °F

Point	Pressure	
A Initial Hydrostatic Mud	<u>2340</u>	P.S.I.
B First Initial Flow Pressure	<u>150</u>	P.S.I.
C First Final Flow Pressure	<u>270</u>	P.S.I.
D Initial Closed-in Pressure	<u>1642</u>	P.S.I.
E Second Initial Flow Pressure	<u>374</u>	P.S.I.
F Second Final Flow Pressure	<u>413</u>	P.S.I.
G Final Closed-in Pressure	<u>1625</u>	P.S.I.
H Final Hydrostatic Mud	<u>2328</u>	P.S.I.

	Time Given	Time Computed
9:00P	<u>M</u>	
Open Tool	<u>30</u>	<u>30</u> Mins.
First Flow Pressure	<u>45</u>	<u>48</u> Mins.
Initial Closed-in Pressure	<u>45</u>	<u>45</u> Mins.
Second Flow Pressure	<u>45</u>	<u>45</u> Mins.
Final Closed-in Pressure	<u>45</u>	<u>45</u> Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 16 Inc.
of 3 mins. and a
final inc. of 0 Min.

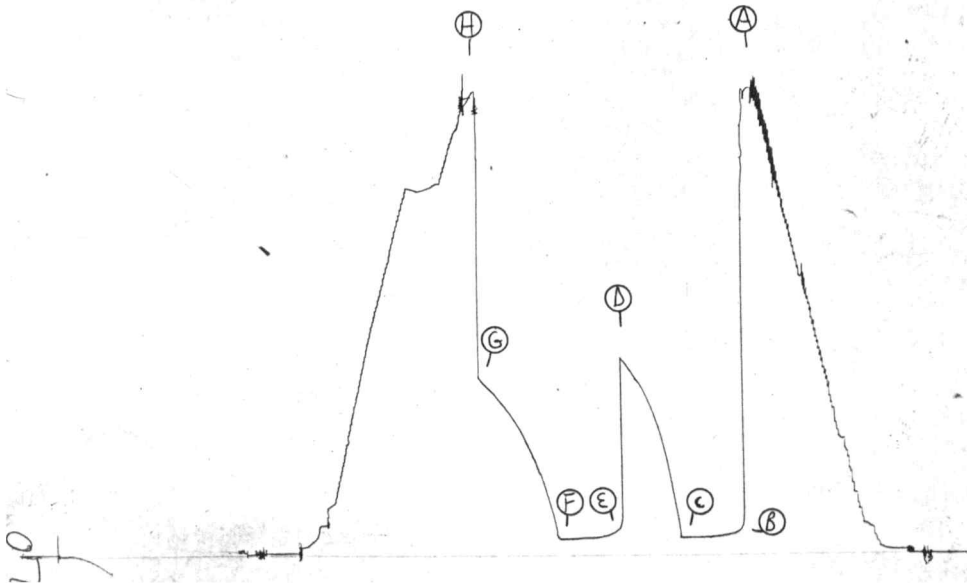
Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 15 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>150</u>	<u>0</u>	<u>270</u>	<u>0</u>	<u>374</u>	<u>0</u>	<u>413</u>
P 2 <u>5</u>	<u>150</u>	<u>3</u>	<u>1199</u>	<u>5</u>	<u>374</u>	<u>3</u>	<u>1408</u>
P 3 <u>10</u>	<u>159</u>	<u>6</u>	<u>1433</u>	<u>10</u>	<u>374</u>	<u>6</u>	<u>1478</u>
P 4 <u>15</u>	<u>181</u>	<u>9</u>	<u>1495</u>	<u>15</u>	<u>374</u>	<u>9</u>	<u>1513</u>
P 5 <u>20</u>	<u>220</u>	<u>12</u>	<u>1529</u>	<u>20</u>	<u>377</u>	<u>12</u>	<u>1536</u>
P 6 <u>25</u>	<u>248</u>	<u>15</u>	<u>1555</u>	<u>25</u>	<u>382</u>	<u>15</u>	<u>1550</u>
P 7 <u>30</u>	<u>270</u>	<u>18</u>	<u>1570</u>	<u>30</u>	<u>389</u>	<u>18</u>	<u>1564</u>
P 8		<u>21</u>	<u>1584</u>	<u>35</u>	<u>398</u>	<u>21</u>	<u>1576</u>
P 9		<u>24</u>	<u>1597</u>	<u>40</u>	<u>407</u>	<u>24</u>	<u>1586</u>
P10		<u>27</u>	<u>1607</u>	<u>45</u>	<u>413</u>	<u>27</u>	<u>1596</u>
P11		<u>30</u>	<u>1613</u>			<u>30</u>	<u>1602</u>
P12		<u>33</u>	<u>1619</u>			<u>33</u>	<u>1607</u>
P13		<u>36</u>	<u>1625</u>			<u>36</u>	<u>1612</u>
P14		<u>39</u>	<u>1631</u>			<u>39</u>	<u>1617</u>
P15		<u>42</u>	<u>1637</u>			<u>42</u>	<u>1621</u>
P16		<u>45</u>	<u>1640</u>			<u>45</u>	<u>1625</u>
P17		<u>48</u>	<u>1642</u>				
P18							
P19							
P20							

TKT # 15251

I



Company H-30, Inc. & Blackhawk Exploration, Inc. Lease & Well No. #1 DeGeer
Elevation ---- Formation Mississippi Effective Pay ---- Ft. Ticket No. 15251
Date 9/ 18 /82 Sec. 3 Twp. 33S Range 15W County Barber State Kansas
Test Approved by Terry L. McLeod Western Representative Jim Wondra
Formation Test No. 4 Interval Tested from 4778 ft. to 4930 ft. Total Depth 4930 ft.
Packer Depth 4773 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 4778 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4793 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 4796 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor H-30 Drlg. Rig #77 Drill Collar Length 401 I. D. 2 1/4 in.
Mud Type drispac Viscosity 44 Weight Pipe Length - I. D. - in.
Weight 9.1 Water Loss 12.6 cc. Drill Pipe Length 4384 I. D. 3.8 in.
Chlorides 22,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 410 Anchor Length 152 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 blow throughout flow periods. Gas to surface in fifteen minutes on pre-flow.
See attached sheet for gas measurements.

Recovered 125 ft. of gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:40 AM P.M. Time Started Off Bottom 3:55 AM P.M. Maximum Temperature 129°
Initial Hydrostatic Pressure 2483 P.S.I.
Initial Flow Period 45 Minutes (B) 95 P.S.I. to (C) 95 P.S.I.
Initial Closed In Period 45 Minutes (D) 1064 P.S.I.
Final Flow Period 45 Minutes (E) 89 P.S.I. to (F) 89 P.S.I.
Final Closed In Period 63 Minutes (G) 967 P.S.I.
Final Hydrostatic Pressure 2458 P.S.I.

GAS FLOW REPORT

Date 9/18/82 Ticket 15251 Company H-30, Inc. & Blackhawk Exploration, Inc.
 Well Name and No. De Geer #1 Dst No. 4 Interval Tested 4778'-4930'
 County Barber State Kansas Sec. 3 Twp. 33S Rg. 15W

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
Gas to surface in fifteen minutes. PRE FLOW					
20 min.	17" of water	1/2" orifice			25,800 CFPD
30 min.	15" of water	1/2" orifice			24,500 CFPD
40 min.	12" of water	1/2" orifice			21,900 CFPD
45 min.	12" of water	1/2" orifice			21,900 CFPD

SECOND FLOW					
5 min.	30" of water	1/2" orifice			34,300 CFPD
15 min.	16" of water	1/2" orifice			25,100 CFPD
25 min.	10" of water	1/2" orifice			19,900 CFPD
35 min.	10" of water	1/2" orifice			19,900 CFPD
45 min.	9" of water	1/2" orifice			18,800 CFPD

GAS BOTTLE

Serial No. --- Date Bottle Filled --- Date to be Invoiced 9/18/82

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 11½% 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 H-30, Inc. & Blackhawk Exploration, Inc.

Authorized by Terry L. McLeod

WESTERN TESTING CO., INC.

Pressure Data

Date 9/18/82 Test Ticket No. 15251
 Recorder No. 2607 Capacity 4150 Location 4793 Ft.
 Clock No. --- Elevation --- Well Temperature 129 °F
 Time Given 12:40P Time Computed M

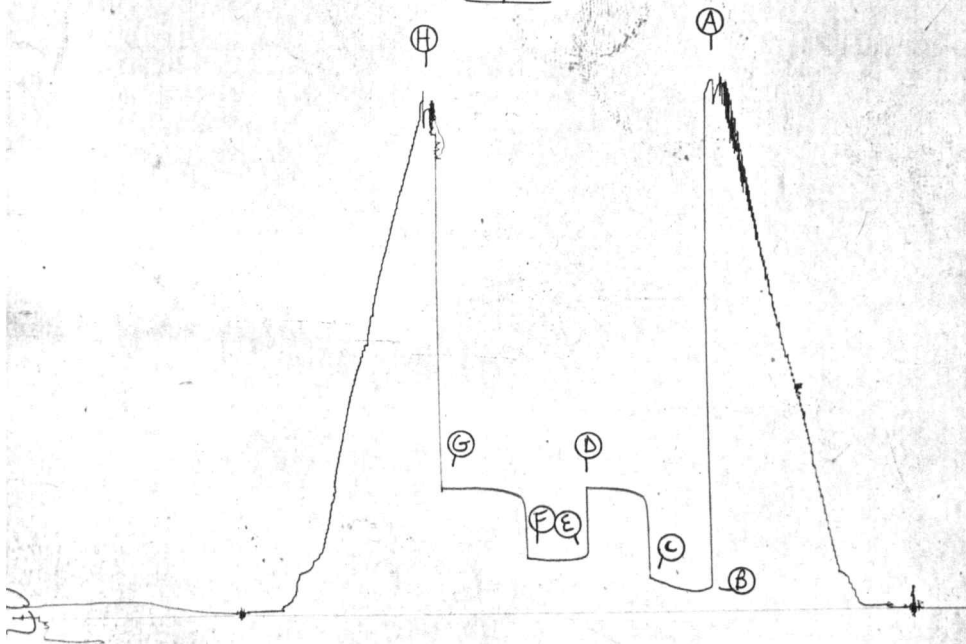
Point	Pressure	Open Tool	First Flow Pressure	Initial Closed-in Pressure	Second Flow Pressure	Final Closed-in Pressure
A Initial Hydrostatic Mud	2483 P.S.I.					
B First Initial Flow Pressure	95 P.S.I.					
C First Final Flow Pressure	95 P.S.I.					
D Initial Closed-in Pressure	1063 P.S.I.					
E Second Initial Flow Pressure	89 P.S.I.					
F Second Final Flow Pressure	89 P.S.I.					
G Final Closed-in Pressure	967 P.S.I.					
H Final Hydrostatic Mud	2458 P.S.I.					

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>21</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>95</u>	<u>0</u>	<u>95</u>	<u>0</u>	<u>89</u>	<u>0</u>	<u>89</u>
P 2 <u>5</u>	<u>95</u>	<u>3</u>	<u>201</u>	<u>5</u>	<u>89</u>	<u>3</u>	<u>144</u>
P 3 <u>10</u>	<u>95</u>	<u>6</u>	<u>322</u>	<u>10</u>	<u>89</u>	<u>6</u>	<u>231</u>
P 4 <u>15</u>	<u>95</u>	<u>9</u>	<u>436</u>	<u>15</u>	<u>89</u>	<u>9</u>	<u>318</u>
P 5 <u>20</u>	<u>95</u>	<u>12</u>	<u>533</u>	<u>20</u>	<u>89</u>	<u>12</u>	<u>392</u>
P 6 <u>25</u>	<u>95</u>	<u>15</u>	<u>619</u>	<u>25</u>	<u>89</u>	<u>15</u>	<u>447</u>
P 7 <u>30</u>	<u>95</u>	<u>18</u>	<u>698</u>	<u>30</u>	<u>89</u>	<u>18</u>	<u>504</u>
P 8 <u>35</u>	<u>95</u>	<u>21</u>	<u>756</u>	<u>35</u>	<u>89</u>	<u>21</u>	<u>553</u>
P 9 <u>40</u>	<u>95</u>	<u>24</u>	<u>808</u>	<u>40</u>	<u>89</u>	<u>24</u>	<u>604</u>
P10 <u>45</u>	<u>95</u>	<u>27</u>	<u>861</u>	<u>45</u>	<u>89</u>	<u>27</u>	<u>647</u>
P11		<u>30</u>	<u>902</u>			<u>30</u>	<u>687</u>
P12		<u>33</u>	<u>938</u>			<u>33</u>	<u>723</u>
P13		<u>36</u>	<u>969</u>			<u>36</u>	<u>753</u>
P14		<u>39</u>	<u>1002</u>			<u>39</u>	<u>785</u>
P15		<u>42</u>	<u>1033</u>			<u>42</u>	<u>813</u>
P16		<u>45</u>	<u>1064</u>			<u>45</u>	<u>839</u>
P17						<u>48</u>	<u>868</u>
P18						<u>51</u>	<u>892</u>
P19						<u>54</u>	<u>912</u>
P20						<u>57</u>	<u>932</u>
						<u>60</u>	<u>952</u>
						<u>63</u>	<u>967</u>

TKT # 15252

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Company H-30, Inc. & Blackhawk Exploration, Inc. Lease & Well No. #1 De Geer
Elevation --- Formation Viola Effective Pay --- Ft. Ticket No. 15252
Date 9/20/82 Sec. 3 Twp. 33S Range 15W County Barber State Kansas
Test Approved by Terry L. McLeod Western Representative Jim Wondra
Formation Test No. 5 Interval Tested from 5154 ft. to 5248 ft. Total Depth 5248 ft.
Packer Depth 5159 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 5154 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 5175 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 5178 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor H-30 Drlg. Rig #77 Drill Collar Length 420 I. D. 2 1/4 in.
Mud Type drispac Viscosity 49 Weight Pipe Length - I. D. - in.
Weight 9.2 Water Loss 12.2 cc. Drill Pipe Length 4705 I. D. 3.8 in.
Chlorides 22,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 410 Anchor Length 94 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: Fair blow throughout flow periods.

Recovered 510 ft. of very slightly gas cut muddy water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:10 ~~A.M.~~ P.M. Time Started Off Bottom 3:25 ~~A.M.~~ P.M. Maximum Temperature 131°
Initial Hydrostatic Pressure 2809 P.S.I.
Initial Flow Period 45 Minutes (B) 109 P.S.I. to (C) 184 P.S.I.
Initial Closed In Period 45 Minutes (D) 667 P.S.I.
Final Flow Period 45 Minutes (E) 285 P.S.I. to (F) 298 P.S.I.
Final Closed In Period 60 Minutes (G) 672 P.S.I.
Final Hydrostatic Pressure 2684 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 9/20/82 Test Ticket No. 15252
Recorder No. 2607 Capacity 4150 Location 5175 Ft.
Clock No. -- Elevation -- Well Temperature 131 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2809	P.S.I.	12:10P	M
B First Initial Flow Pressure	109	P.S.I.	45	45
C First Final Flow Pressure	184	P.S.I.	45	45
D Initial Closed-in Pressure	667	P.S.I.	45	45
E Second Initial Flow Pressure	285	P.S.I.	60	60
F Second Final Flow Pressure	298	P.S.I.		
G Final Closed-in Pressure	672	P.S.I.		
H Final Hydrostatic Mud	2684	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>20</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>109</u>	<u>0</u>	<u>184</u>	<u>0</u>	<u>285</u>	<u>0</u>	<u>298</u>
P 2 <u>5</u>	<u>109</u>	<u>3</u>	<u>594</u>	<u>5</u>	<u>285</u>	<u>3</u>	<u>613</u>
P 3 <u>10</u>	<u>109</u>	<u>6</u>	<u>623</u>	<u>10</u>	<u>285</u>	<u>6</u>	<u>632</u>
P 4 <u>15</u>	<u>111</u>	<u>9</u>	<u>633</u>	<u>15</u>	<u>285</u>	<u>9</u>	<u>640</u>
P 5 <u>20</u>	<u>118</u>	<u>12</u>	<u>643</u>	<u>20</u>	<u>285</u>	<u>12</u>	<u>648</u>
P 6 <u>25</u>	<u>127</u>	<u>15</u>	<u>650</u>	<u>25</u>	<u>285</u>	<u>15</u>	<u>654</u>
P 7 <u>30</u>	<u>139</u>	<u>18</u>	<u>653</u>	<u>30</u>	<u>286</u>	<u>18</u>	<u>658</u>
P 8 <u>35</u>	<u>156</u>	<u>21</u>	<u>655</u>	<u>35</u>	<u>290</u>	<u>21</u>	<u>660</u>
P 9 <u>40</u>	<u>168</u>	<u>24</u>	<u>657</u>	<u>40</u>	<u>295</u>	<u>24</u>	<u>661</u>
P10 <u>45</u>	<u>184</u>	<u>27</u>	<u>659</u>	<u>45</u>	<u>298</u>	<u>27</u>	<u>662</u>
P11		<u>30</u>	<u>661</u>			<u>30</u>	<u>663</u>
P12		<u>33</u>	<u>663</u>			<u>33</u>	<u>664</u>
P13		<u>36</u>	<u>664</u>			<u>36</u>	<u>665</u>
P14		<u>39</u>	<u>665</u>			<u>39</u>	<u>666</u>
P15		<u>42</u>	<u>666</u>			<u>42</u>	<u>667</u>
P16		<u>45</u>	<u>667</u>			<u>45</u>	<u>668</u>
P17						<u>48</u>	<u>669</u>
P18						<u>51</u>	<u>670</u>
P19						<u>54</u>	<u>671</u>
P20						<u>57</u>	<u>672</u>
						<u>60</u>	<u>672</u>