



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

Company Cinco Exploration Company Lease & Well No. Paulsen #1
Elevation 2169 Derrick Floor Formation Kansas City Effective Pay ----- Ft. Ticket No. 553
Date 8/14/78 Sec. 36 Twp. 27S Range 18W County Kiowa State Kansas
Test Approved by T. Blount Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 4158' ft. to 4198' ft. Total Depth 4198' ft.

Packer Depth 4153' ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4158' ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4160 ft. Recorder Number 2604 Cap. 4150

Bottom Recorder Depth (Outside) 4165 ft. Recorder Number 2606 Cap. 4150

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

Drilling Contractor H-30, Inc. Drill Collar Length 246 I. D. 2 1/4 in.

Mud Type premix drispac Viscosity 36 Weight Pipe Length -- I. D. -- in.

Weight 9.2 Water Loss 12.0 cc. Drill Pipe Length 3692 I. D. 3.8 in.

Chlorides 25,000 P.P.M. Test Tool Size 5 1/2 OD in. Tool Joint Size 4 1/2 FH in.

Jars: Make No Serial Number -- Anchor Length 40 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.

Blow: Fair blow building to strong blow eight minutes on initial flow period. Strong blow through-
out final flow period.

Recovered 2587 ft. of gas in pipe

Recovered 93 ft. of slightly oil and gas cut mud

Recovered 246 ft. of heavy oil and gas cut mud. Low water content. Chlorides 43,000 PPM

Recovered ft. of

Recovered ft. of

Remarks: Slid tool 20 feet after it took weight. Tool opened prior to total depth. Pulled loose
to add final joint. Estimated depth achieved.

Time Set Packer(s) 7:50 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 10:50 ~~P.M.~~ ^{A.M.} Maximum Temperature 118

Initial Hydrostatic Pressure 2051 P.S.I.

Initial Flow Period 30 Minutes (B) 164 P.S.I. to (C) 138 P.S.I.

Initial Closed In Period 60 Minutes (D) 1164 P.S.I.

Final Flow Period 30 Minutes (E) 165 P.S.I. to (F) 134 P.S.I.

Final Closed In Period 60 Minutes (G) 1067 P.S.I.

Final Hydrostatic Pressure 2013 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8 / 14 / 78

Test Ticket No. 553

Recorder No. 2604

Capacity 4150

Location 4160 Ft.

Clock No. --

Elevation 2169 Derrick Floor

Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2051 P.S.I.	Open Tool	7:50A	M
B First Initial Flow Pressure	164 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	138 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1164 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	165 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	134 P.S.I.			
G Final Closed-in Pressure	1067 P.S.I.			
H Final Hydrostatic Mud	2013 P.S.I.			

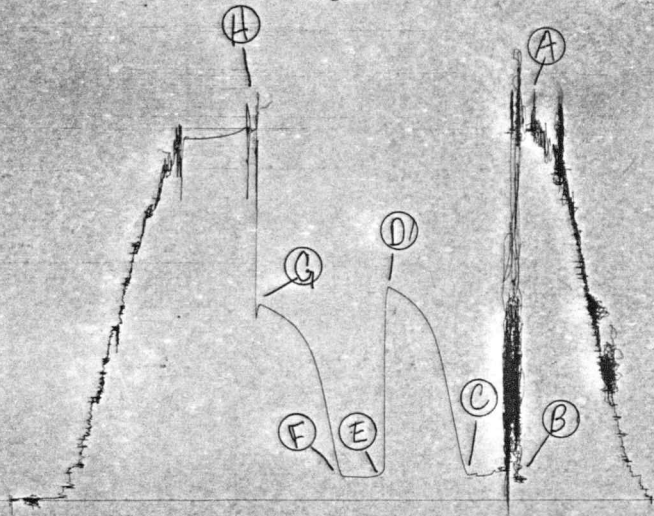
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>6</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>164</u>	<u>0</u>	<u>138</u>	<u>0</u>	<u>165</u>	<u>0</u>	<u>134</u>
P 2 <u>5</u>	<u>158</u>	<u>3</u>	<u>175</u>	<u>5</u>	<u>134</u>	<u>3</u>	<u>173</u>
P 3 <u>10</u>	<u>162</u>	<u>6</u>	<u>250</u>	<u>10</u>	<u>127</u>	<u>6</u>	<u>271</u>
P 4 <u>15</u>	<u>136</u>	<u>9</u>	<u>359</u>	<u>15</u>	<u>128</u>	<u>9</u>	<u>380</u>
P 5 <u>20</u>	<u>134</u>	<u>12</u>	<u>472</u>	<u>20</u>	<u>129</u>	<u>12</u>	<u>497</u>
P 6 <u>25</u>	<u>145</u>	<u>15</u>	<u>584</u>	<u>25</u>	<u>130</u>	<u>15</u>	<u>600</u>
P 7 <u>30</u>	<u>138</u>	<u>18</u>	<u>680</u>	<u>30</u>	<u>134</u>	<u>18</u>	<u>701</u>
P 8		<u>21</u>	<u>778</u>			<u>21</u>	<u>771</u>
P 9		<u>24</u>	<u>862</u>			<u>24</u>	<u>823</u>
P10		<u>27</u>	<u>927</u>			<u>27</u>	<u>864</u>
P11		<u>30</u>	<u>971</u>			<u>30</u>	<u>899</u>
P12		<u>33</u>	<u>1006</u>			<u>33</u>	<u>924</u>
P13		<u>36</u>	<u>1036</u>			<u>36</u>	<u>952</u>
P14		<u>39</u>	<u>1063</u>			<u>39</u>	<u>972</u>
P15		<u>42</u>	<u>1084</u>			<u>42</u>	<u>990</u>
P16		<u>45</u>	<u>1100</u>			<u>45</u>	<u>1005</u>
P17		<u>48</u>	<u>1118</u>			<u>48</u>	<u>1021</u>
P18		<u>51</u>	<u>1133</u>			<u>51</u>	<u>1033</u>
P19		<u>54</u>	<u>1145</u>			<u>54</u>	<u>1045</u>
P20		<u>57</u>	<u>1157</u>			<u>57</u>	<u>1056</u>
		<u>60</u>	<u>1164</u>			<u>60</u>	<u>1067</u>

2604

TK4#553

I.





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

Company Cinco Co. Lease & Well No. Paulsen #1
Elevation 2167 Ground Level Formation Conglomerate Effective Pay - Ft. Ticket No. 554
Date 8-16-78 Sec. 36 Twp 27S Range 18W County Kiowa State Kansas
Test Approved by James Dilts Western Representative Rod Tritt
Formation Test No. 2 Interval Tested from 4696 ft. to 4720 ft. Total Depth 4720 ft.
Packer Depth 4691 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4692 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4699 ft. Recorder Number 2604 Cap. 4150
Bottom Recorder Depth (Outside) 4702 ft. Recorder Number 2606 Cap. 4150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor H-30Dr1g, Inc. Drill Collar Length 246 I. D. 2 1/4 in.
Mud Type Premix, Drispac Viscosity 41 Weight Pipe Length - I. D. - in.
Weight 9.3 Water Loss 14.4 cc. Drill Pipe Length - I. D. 3.8 in.
Chlorides 27,000 P.P.M. Test Tool Size 5 1/2 OD in. Tool Joint Size 4 1/2 FH in.
Jars: Make W.T.C. Serial Number 408 Anchor Length 24 ft. Size 5 1/2 OD in.
Did Well Flow? No Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in.

Blow: Strong blow throughout initial flow period. Gas to surface in 8 minutes. See attached sheet for gas measurements.

Recovered 90 ft. of gas cut drilling mud.
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -
Remarks: -

Time Set Packer(s) 11:40 A.M. Time Started Off Bottom 3:40 A.M. Maximum Temperature 128
Initial Hydrostatic Pressure 2438 P.S.I.
Initial Flow Period 30 Minutes (B) 96 P.S.I. to (C) 53 P.S.I.
Initial Closed In Period 60 Minutes (D) 1468 P.S.I.
Final Flow Period 60 Minutes (E) 85 P.S.I. to (F) 40 P.S.I.
Final Closed In Period 90 Minutes (G) 1437 P.S.I.
Final Hydrostatic Pressure 2394 P.S.I.



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

GAS FLOW REPORT

Date 8-16-78 Ticket 554 Company Cinco Company
Well Name and No. Paulsen #1 Dst No. 2 Interval Tested 4696' - 4720'
County Kiowa State Kansas Sec. 36 Twp. 27S Rg. 18W

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
PRE FLOW						
11:40AM						Tool opened
11:48AM						Gas to surface
11:50AM	10 min.	1.5 lbs.	3/4" orifice			96,000 C.F.P.D.
12:00PM	20 min.	2.0 lbs.	3/4" orifice			108,000 C.F.P.D.
12:10PM	30 min.	1.5 lbs.	3/4" orifice			96,000 C.F.P.D.

SECOND FLOW

1:10PM						Tool opened
1:20PM	10 min.	3.5 lbs.	3/4" orifice			144,000 C.F.P.D.
1:30PM	20 min.	3.0 lbs.	3/4" orifice			133,000 C.F.P.D.
1:40PM	30 min.	3.0 lbs.	3/4" orifice			133,000 C.F.P.D.
1:40PM	40 min.	2.5 lbs.	3/4" orifice			121,000 C.F.P.D.
2:00PM	50 min.	2.0 lbs.	3/4" orifice			108,000 C.F.P.D.
2:10PM	60 min.	2.0 lbs.	3/4" orifice			108,000 C.F.P.D.

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% per month, equal to 12% 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 Cinco Co.

Authorized by James Dilts

WESTERN TESTING CO., INC.

Pressure Data

Date 8-16-78 Test Ticket No. 554
Recorder No. 2604 Capacity 4150 Location 4699 Ft.
Clock No. - Elevation 2167 Ground Level Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2428 P.S.I.	Open Tool	11:40A.	M
B First Initial Flow Pressure	96 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	53 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1468 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	85 P.S.I.	Final Closed-in Pressure	90 Mins.	93 Mins.
F Second Final Flow Pressure	40 P.S.I.			
G Final Closed-in Pressure	1437 P.S.I.			
H Final Hydrostatic Mud	2394 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>31</u> Inc. of <u>3</u> mins. and a 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>96</u>	<u>0</u>	<u>53</u>	<u>0</u>	<u>85</u>	<u>0</u>	<u>40</u>
P 2 <u>5</u>	<u>74</u>	<u>3</u>	<u>301</u>	<u>5</u>	<u>62</u>	<u>3</u>	<u>252</u>
P 3 <u>10</u>	<u>66</u>	<u>6</u>	<u>667</u>	<u>10</u>	<u>53</u>	<u>6</u>	<u>726</u>
P 4 <u>15</u>	<u>57</u>	<u>9</u>	<u>1061</u>	<u>15</u>	<u>47</u>	<u>9</u>	<u>1052</u>
P 5 <u>20</u>	<u>55</u>	<u>12</u>	<u>1280</u>	<u>20</u>	<u>42</u>	<u>12</u>	<u>1238</u>
P 6 <u>25</u>	<u>53</u>	<u>15</u>	<u>1361</u>	<u>25</u>	<u>40</u>	<u>15</u>	<u>1290</u>
P 7 <u>30</u>	<u>53</u>	<u>18</u>	<u>1391</u>	<u>30</u>	<u>40</u>	<u>18</u>	<u>1318</u>
P 8		<u>21</u>	<u>1408</u>	<u>35</u>	<u>40</u>	<u>21</u>	<u>1332</u>
P 9		<u>24</u>	<u>1418</u>	<u>40</u>	<u>40</u>	<u>24</u>	<u>1347</u>
P10		<u>27</u>	<u>1426</u>	<u>45</u>	<u>40</u>	<u>27</u>	<u>1357</u>
P11		<u>30</u>	<u>1433</u>	<u>50</u>	<u>40</u>	<u>30</u>	<u>1366</u>
P12		<u>33</u>	<u>1439</u>	<u>55</u>	<u>40</u>	<u>33</u>	<u>1370</u>
P13		<u>36</u>	<u>1443</u>	<u>60</u>	<u>40</u>	<u>36</u>	<u>1378</u>
P14		<u>39</u>	<u>1450</u>			<u>39</u>	<u>1384</u>
P15		<u>42</u>	<u>1452</u>			<u>42</u>	<u>1389</u>
P16		<u>45</u>	<u>1454</u>			<u>45</u>	<u>1393</u>
P17		<u>48</u>	<u>1458</u>			<u>48</u>	<u>1399</u>
P18		<u>51</u>	<u>1462</u>			<u>51</u>	<u>1403</u>
P19		<u>54</u>	<u>1464</u>			<u>54</u>	<u>1405</u>
P20		<u>57</u>	<u>1466</u>			<u>57</u>	<u>1410</u>
WTC - 4		<u>60</u>	<u>1468</u>			<u>60</u>	<u>1412</u>

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WESTERN TESTING CO., INC.

Pressure Data

Date 8-16-78
 Recorder No. 2604 Capacity 4150 Test Ticket No. 554
 Clock No. - Elevation 2167 Ground Level Location 4699 Ft.
 Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2428	P.S.I.	11:40A.	M
B First Initial Flow Pressure	96	P.S.I.	30	Mins. 30
C First Final Flow Pressure	53	P.S.I.	60	Mins. 60
D Initial Closed-in Pressure	1468	P.S.I.	60	Mins. 60
E Second Initial Flow Pressure	85	P.S.I.	90	Mins. 93
F Second Final Flow Pressure	40	P.S.I.		
G Final Closed-in Pressure	1437	P.S.I.		
H Final Hydrostatic Mud	2394	P.S.I.		

Open Tool

First Flow Pressure

Initial Closed-in Pressure

Second Flow Pressure

Final Closed-in Pressure

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 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: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 31 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						63	1414
P 2						66	1418
P 3						69	1422
P 4						72	1424
P 5						75	1427
P 6						78	1428
P 7						81	1429
P 8						84	1431
P 9						87	1433
P10						90	1435
P11						93	1437
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TK-#554

I.

H

A

G

D

F

E

C

B





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

Cinco Exploration Company

Paulsen #1

Company _____ Lease & Well No. _____
Elevation 2167 Ground Level Formation Mississippi Effective Pay ----- Ft. Ticket No. 555
Date 8/17/78 Sec. 36 Twp. 27S Range 18W County Kiowa State Kansas
Test Approved by James Dilts Western Representative Rod Tritt

Formation Test No. 3 Interval Tested from 4741' ft. to 4760' ft. Total Depth 4760' ft.

Packer Depth 4736' ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4741' ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ---

Top Recorder Depth (Inside) 4744 ft. Recorder Number 2604 Cap. 4150

Bottom Recorder Depth (Outside) 4747 ft. Recorder Number 2606 Cap. 4150

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

Drilling Contractor H-30, Inc.

Drill Collar Length 246 I. D. 2 1/4 in.

Mud Type premix-driscopac Viscosity 38

Weight Pipe Length -- I. D. -- in.

Weight 9.4 Water Loss 16.0 cc.

Drill Pipe Length 4466 I. D. 3.8 in.

Chlorides 27,000 P.P.M.

Test Tool Size 5 1/2 OD in. Tool Joint Size 4 1/2 FH in.

Jars: Make WTC Serial Number 408

Anchor Length 19 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.

Blow: Strong blow. Packer didn't hold. Pulled tool. Reset toolpacker held. Weak building to strong on initial flow period. Final flow period no blow.

Recovered 403 ft. of drilling mud. Some bubbles in mud. couldn't detect any gas.

Recovered ft. of

Recovered ft. of MISRUN due to packer failure

Recovered ft. of

Recovered ft. of

Remarks: _____

Time Set Packer(s) 5:50 A.M. Time Started Off Bottom 9:50 P.M. Maximum Temperature _____

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

Initial Flow Period _____ Minutes 45 (B) _____ P.S.I. to (C) _____ P.S.I.

Initial Closed In Period _____ Minutes 60 (D) _____ P.S.I.

Final Flow Period _____ Minutes 45 (E) _____ P.S.I. to (F) _____ P.S.I.

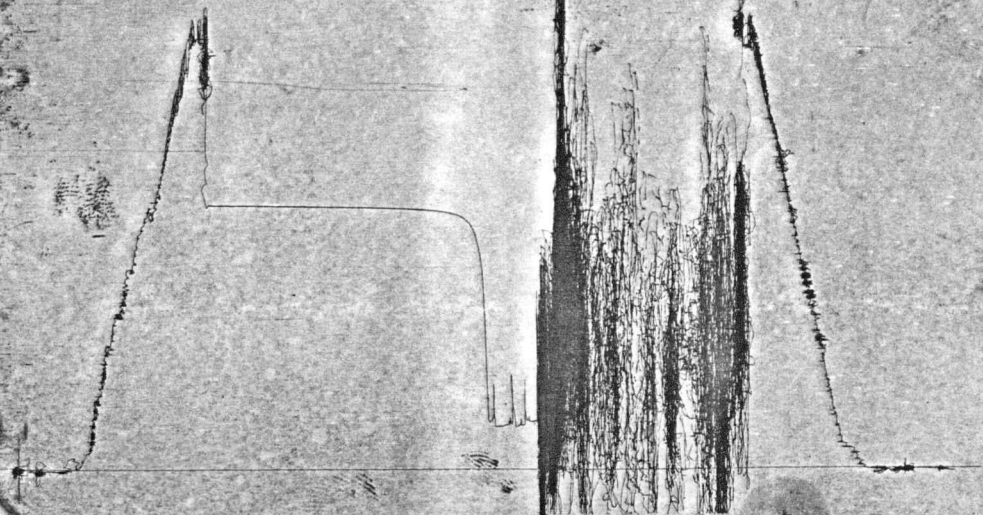
Final Closed In Period _____ Minutes 90 (G) _____ P.S.I.

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

2604

1-2-4

2





Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Cinco Exploration Company Lease & Well No. Paulsen #1

Elevation 2167 Ground Level Formation Mississippi Effective Pay ----- Ft. Ticket No. 556

Date 8/17/78 Sec. 36 Twp 27S Range 18W County Kiowa State Kansas

Test Approved by James Dilts Western Representative Rod Tritt

Formation Test No. 4 Interval Tested from 4741' ft. to 4760' ft. Total Depth 4760' ft.

Packer Depth 4736' ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4741' ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4744 ft. Recorder Number 2604 Cap. 4150

Bottom Recorder Depth (Outside) 4747 ft. Recorder Number 2606 Cap. 4150

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

Drilling Contractor H-30, Inc. Drill Collar Length 246 I. D. 2 1/4 in.

Mud Type drispac Viscosity 38 Weight Pipe Length -- I. D. -- in.

Weight 9.4 Water Loss 16.0 cc. Drill Pipe Length 4465 I. D. 3.8 in.

Chlorides 27,000 P.P.M. Test Tool Size 5 1/2 OD in. Tool Joint Size 4 1/2 FH in.

Jars: Make WTC Serial Number 408 Anchor Length 14 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.

Blow: Fair blow decreasing to no blow on initial flow period. Flushed tool. No blow on final flow period.

Recovered 90 ft. of very heavy drilling mud

Recovered ft. of

Recovered ft. of MISRUN

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 2:50 ~~A.M.~~ P.M. Time Started Off Bottom 6:35 ~~A.M.~~ P.M. Maximum Temperature

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

Initial Flow Period Minutes 45 (B) P.S.I. to (C) P.S.I.

Initial Closed In Period Minutes 60 (D) P.S.I.

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

Final Closed In Period Minutes 90 (G) P.S.I.

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

2604

