

DRILL-STEM TEST DATA

Well Name Skoluat	Test No. 1
Well Number 1	Zone Tested KC
Company Richlan Drlg	Date 5/3/02
Comp. Rep. J Musgrove	Tester Don Fabricius
Contractor Discovery Drlg.	Ticket No. 4052
Location 14-18-14	Elevation

Recorder No. <u>3088</u>	Clock Range <u>12</u>	Recorder No. <u>4377</u>	Clock Range <u>12</u>
Depth <u>3218</u>		Depth <u>3222</u>	
Initial Hydro Mud Press. <u>1410</u>		Initial Hydro Mud Press. <u>1421</u>	
Initial Shut-in Press. <u>164</u>		Initial Shut-in Press. <u>164</u>	
Initial Flow Press. <u>58-70</u>		Initial Flow Press. <u>58-70</u>	
Final Flow Press. <u>94-94</u>		Final Flow Press. <u>94-94</u>	
Final Shut-in Press. <u>129</u>		Final Shut-in Press. <u>129</u>	
Final Hydro Mud Press. <u>1410</u>		Final Hydro Mud Press. <u>1421</u>	
Temperature _____		Tool Open Before I. S. I. <u>30</u>	Mins.
Mud Weight <u>8.9</u>	Viscosity <u>47</u>	Initial Shut-in <u>30</u>	Mins.
Fluid Loss <u>11.0</u>		Flow Period <u>45</u>	Mins.
Interval Tested <u>3157-3226</u>		Final Shut-in <u>45</u>	Mins.
Top Packer Depth <u>3152</u>		Surface Choke Size <u>1</u>	
Bottom Packer Depth <u>3157</u>		Bottom Choke Size <u>3/4</u>	
Total Depth <u>3226</u>		Main Hole Size <u>7 7/8</u>	
Drill Pipe Size <u>4 1/2 X H</u>	Wt. <u>16.60</u>	Rubber Size <u>6 3/4</u>	
Drill Collar I. D. _____	Ft. Run _____		
Recovery—Total Feet _____			
Recovered <u>40</u>	Feet Of <u>Very slightly oil cut mud</u>		
Recovered <u>60</u>	Feet Of <u>Oil cut mud</u>		
Recovered _____	Feet Of _____		
Recovered _____	Feet Of _____		

Remarks

Strong blow thru-test

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Arrow Testing Company shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Arrow Testing Company, nor whether resulting from the acts or omissions of Arrow Testing Company, or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

It is expressly understood and agreed that Arrow Testing Company, shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Arrow Testing Company has authority to alter or extend the terms of this agreement. I have read and understand the terms of this agreement and represent that I am authorized to sign the same as agent of customer.

DRILL-STEM TEST DATA

Well Name Skoluat	Test No. 2
Well Number 1	Zone Tested KC
Company Richlan Drlg	Date 5/4/02
Comp. Rep. J Musgrove	Tester Don Fabricius
Contractor Discovery Drlg.	Ticket No. 4053
Location 14-18-14	Elevation

Recorder No. <u>3088</u>	Clock Range <u>12</u>	Recorder No. <u>4377</u>	Clock Range <u>12</u>
Depth <u>3364</u>		Depth <u>3368</u>	
Initial Hydro Mud Press. <u>1704</u>		Initial Hydro Mud Press. <u>1704</u>	
Initial Shut-in Press. <u>82</u>		Initial Shut-in Press. <u>82</u>	
Initial Flow Press. <u>82-82</u>		Initial Flow Press. <u>82-82</u>	
Final Flow Press. <u>--</u>		Final Flow Press. <u>--</u>	
Final Shut-in Press. <u>--</u>		Final Shut-in Press. <u>--</u>	
Final Hydro Mud Press. <u>1704</u>		Final Hydro Mud Press. <u>1709</u>	
Temperature _____		Tool Open Before I. S. I. <u>15</u>	Mins.
Mud Weight <u>9.3</u>	Viscosity <u>44</u>	Initial Shut-in <u>15</u>	Mins.
Fluid Loss <u>10.4</u>		Flow Period <u>--</u>	Mins.
Interval Tested <u>3292-3372</u>		Final Shut-in <u>--</u>	Mins.
Top Packer Depth <u>3287</u>		Surface Choke Size <u>1</u>	
Bottom Packer Depth <u>3292</u>		Bottom Choke Size <u>3/4</u>	
Total Depth <u>3372</u>		Main Hole Size <u>7 7/8</u>	
Drill Pipe Size <u>4 1/2 X H</u>	Wt. <u>16.60</u>	Rubber Size <u>6 3/4</u>	
Drill Collar I. D. _____	Ft. Run _____		
Recovery—Total Feet _____			
Recovered <u>5</u>	Feet Of <u>Mud</u>		
Recovered _____	Feet Of _____		
Recovered _____	Feet Of _____		
Recovered _____	Feet Of _____		

Remarks

Very weak blow dead in 2 min

flush tool on second open - surge

DRILL-STEM TEST DATA

Well Name Skoluat	Test No. 3
Well Number 1	Zone Tested Cong
Company Richlan Drlg	Date 5/5/02
Comp. Rep. J Musgrove	Tester Don Fabricius
Contractor Discovery Drlg.	Ticket No. 4054
Location 14-18-14	Elevation

Recorder No. 3088 Clock Range 12 Recorder No. 4377 Clock Range 12

Depth 3401 Depth 3405

Initial Hydro Mud Press. 1692 Initial Hydro Mud Press. 1695

Initial Shut-in Press. 70 Initial Shut-in Press. 70

Initial Flow Press. 47-47 Initial Flow Press. 47-47

Final Flow Press. 47-47 Final Flow Press. 47-47

Final Shut-in Press. 58 Final Shut-in Press. 58

Final Hydro Mud Press. 1692 Final Hydro Mud Press. 1695

Temperature _____ Tool Open Before I. S. I. 20 Mins.

Mud Weight 9.3 Viscosity 44 Initial Shut-in 20 Mins.

Fluid Loss 10.4 Flow Period 20 Mins.

Interval Tested 3366-3409 Final Shut-in 20 Mins.

Top Packer Depth 3361 Surface Choke Size 1

Bottom Packer Depth 3366 Bottom Choke Size 3/4

Total Depth 3409 Main Hole Size 7 7/8

Drill Pipe Size 4 1/2 X H Wt. 16.60 Rubber Size 6 3/4

Drill Collar I. D. _____ Ft. Run _____

Recovery—Total Feet _____

Recovered 5 Feet Of Mud

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Remarks

Very weak blow dead in 11 min

flush tool on second open - surge

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It is expressly understood and agreed that Arrow Testing Company, shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Arrow Testing Company has authority to alter or extend the terms of this agreement. I have read and understand the terms of this agreement and represent that I am authorized to sign the same as agent of customer.