15-163-23343

2-7s-17w

ARROW TESTING COMPANY

P. O. BOX 1051 GREAT BEND, KANSAS 67530

ORIGINAL

DRILL-STEM TEST DATA

Well Name	Melton	Test No.	1
Well Number	1	Zone Tested	Top
Company	Empire Exploration LLC	Date	1/5/02
Comp. Rep.	J Gree	Tester	Don Fabricius
Contractor	A & A Drlg	Ticket No.	4033
Location	2-7-17	Elevation	

Recorder No.	3088	Recorder No.	4377
Clock Range	12	Clock Range	12
Depth	2872	Depth	2876
Initial Hydro Mud Press.	1404	Initial Hydro Mud Press.	1400
Initial Shut-in Press.	23	Initial Shut-in Press.	10
Initial Flow Press.	23-23	Initial Flow Press.	10-10
Final Flow Press.	23-23	Final Flow Press.	10-10
Final Shut-in Press.	23	Final Shut-in Press.	10
Final Hydro Mud Press.	1404	Final Hydro Mud Press.	1400
Temperature		Tool Open Before I. S. I.	30 Mins.
Mud Weight	9.1	Viscosity 40	Initial Shut-in 30 Mins.
Fluid Loss	8.2	Flow Period	15 Mins.
Interval Tested	2864-80	Final Shut-in	--- Mins.
Top Packer Depth	2859	Surface Choke Size	1
Bottom Packer Depth	2864	Bottom Choke Size	3/4
Total Depth	2880	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 1 Feet Of Mud

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

RECEIVED
FEB 20 2002
KCC WICHITA

Remarks

Very Weak blow dead in 7 min - flush

Tool on second open - Surge

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.

15-163-23343

2-7s-17w

ARROW TESTING COMPANY

P. O. BOX 1051 GREAT BEND, KANSAS 67530

ORIGINAL

DRILL-STEM TEST DATA

Well Name	Melton	Test No.	2
Well Number	1	Zone Tested	KC
Company	Empire Exploration LLC	Date	1/8/02
Comp. Rep.	J Gree	Tester	Don Fabricius
Contractor	A & A Drlg	Ticket No.	4034
Location	2-7-17	Elevation	

Recorder No.	3088	Recorder No.	4377
Clock Range	12	Clock Range	12
Depth	3204	Depth	3476
Initial Hydro Mud Press.	1658	Initial Hydro Mud Press.	--
Initial Shut-in Press.	1094	Initial Shut-in Press.	Straddle Test
Initial Flow Press.	35-35	Initial Flow Press.	Bottom Packer
Final Flow Press.	35	Final Flow Press.	Hold
Final Shut-in Press.	--	Final Shut-in Press.	--
Final Hydro Mud Press.	1658	Final Hydro Mud Press.	--
Temperature		Tool Open Before I. S. I.	30 Mins.
Mud Weight	9.7	Initial Shut-in	30 Mins.
Viscosity	56		
Fluid Loss	88	Flow Period	15 Mins.
Interval Tested	3192-3210	Final Shut-in	--- Mins.
Top Packer Depth	3192	Surface Choke Size	1
Bottom Packer Depth	3210	Bottom Choke Size	3/4
Total Depth	3480	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 55 Feet Of Mud with specks of oil

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

RECEIVED
FEB 20 2002
KCC WICHITA

Remarks

Very weak blow dead in 27 min flush

Tool on second open very weak blow dead in

3 min Straddle test

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