TRILOBITE TESTING, INC.

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DRILL STEM TEST REPORT

Prepaired for:

Phillips Exploration Co, LC
4109 N. Ironwood
Wichita, KS 67226

Miller #3-20
20-23s-7w
Reno co Kansas

ORIGINAL

Trilobite Testing, Inc
PO Box 362 - Hays, Kansas - 67601
ph: 785-625-4778 fax: 785-625-5620
e-mail: trilobite@eaglecom.net

ORIGINAL

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT
Phillips Exploration Co, LC
4109 N. Ironwood
Wichita, KS 67226

		Date:	10/27/2001
Well name#:	Miller	Ticket #:	14108
Location#:	20-23s-7w Reno co Ks	DST#	1

General Information:

Formation:	Hertha	Test Type:	Conventional
Interval:	3425-3456	Tester:	Darren Amerine
Total Depth:	3456	Elevation:	1609 ft(KB)
Hole Diameter:	7 7/8"		1602 ft(CF)

Start Data:	10/27/2001	Tool Weight:	2100
Start Time:	1:00	Weight Set on Packers:	20000
Time tool opened:	3:05	Weight to Pull Loose:	37000
Time Off Btm:	5:50	Initial String Weight:	37000
End Date:	10/27/2001	Final String Weight:	40000
End Time:	7:15	Drill Pipe Length:	3417
		Drill Collar Length:	

Test Comment:
IF: Weak blow built to 1/4 - 1/2" in bucket
ISI: Bled down 2 minutes no blow back
FF: Dead Blow
FSI: No blow back

Recovery Length(ft):	Description:
20	Very slight oil cut mud 4%oil 96%mud

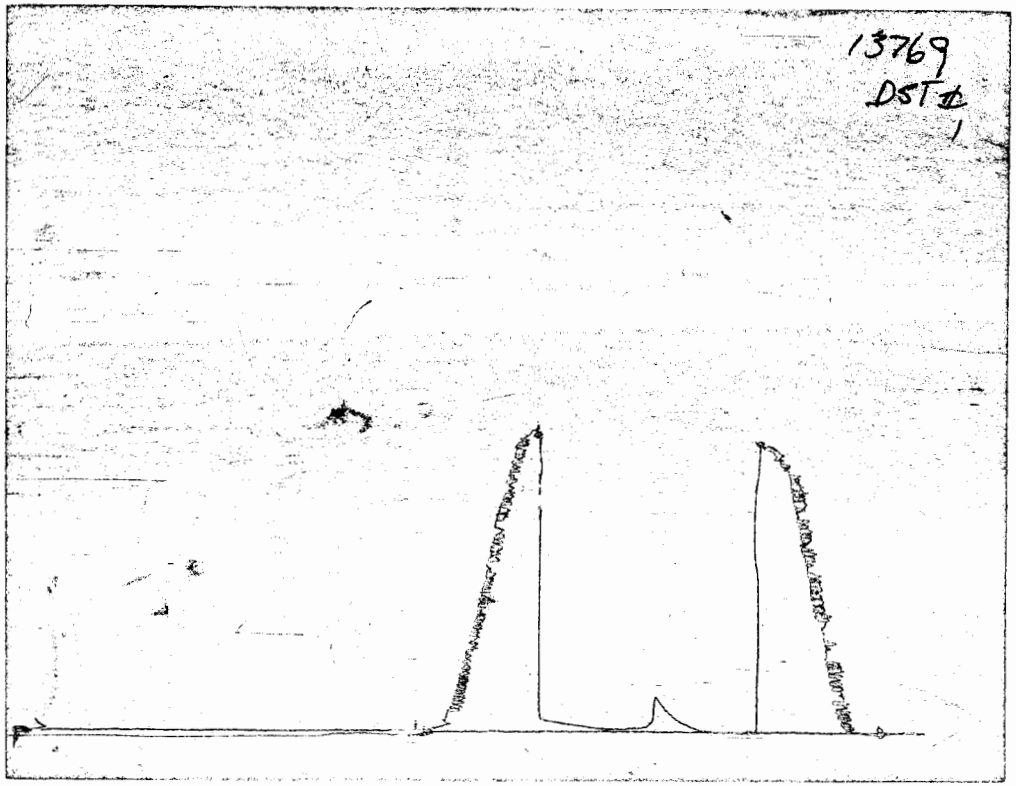
Recorder #:	13769	
Pressure Summary:		Time:(min)
Initial Hydro-static:	1617	
Open to Flow (1):	6	30
Shut-in (1):	9	
End Shut-in (1):	200	45
Open to Flow (2):	18	30
Shut-in (2):	18	
End Shut-in (2);	76	60
Final Hydro-static:	1636	

BHT:	103
OIL API:	
H2O Salinity:	
Mud Type:	Chemical
Mud Weight:	9.4
Viscosity:	45
Water Loss:	10.2
Resistivity;	
Salinity:	7800

ORIGINAL

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart



111617

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601 Nº 14108

Test Ticket

Well Name & No. Miller Test No. #1 Date 10/27/01

Company Phillips Exploration Co, L.C. Zone Tested Hertha

Address 4109 N. Ironwood Wichita, KS 67226 Elevation 1609 KB 1602 GL

Co. Rep / Geo. James B. Phillips Cont. Duke #2 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 20 Twp. 23 S Rge. 7 W Co. Reno State KS

No. of Copies 5 Distribution Sheet (Y, N) ___ Turnkey (Y, N) ___ Evaluation (Y, N) ___

Interval Tested 3425' - 3456' Initial Str Wt./Lbs. 37,000 Unseated Str Wt./Lbs. 40,000

Anchor Length 31' Wt. Set Lbs 20,000 Wt. Pulled Loose/Lbs. 37,000

Top Packer Depth 3420' Tool Weight 2100

Bottom Packer Depth 3425' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓

Total Depth 3456' Wt. Pipe Run N/A Drill Collar Run N/A

Mud Wt. 9.4 LCM 0 Vis. 45 WL 10.2 Drill Pipe Size 4½ XH Ft. Run 3417'

Blow Description IF: Weak blow built to ¼" - ½" in H20 bucket.
IST: Bled down 2 mins. No blow back.
FF: Dead blow.
FST: No blow back.

Recovery — Total Feet 20' GIP 0 Ft. in DC N/A Ft. in DP 20'

Rec. 20' Feet Of VSOCM %gas 4 %oil %water 96 %mud

Rec. ___ Feet Of ___ %gas %oil %water %mud

Rec. ___ Feet Of ___ %gas %oil %water %mud

Rec. ___ Feet Of ___ %gas %oil %water %mud

Rec. ___ Feet Of ___ %gas %oil %water %mud

BHT 103° °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

RW ___ @ ___ °F Chlorides ___ ppm Recovery Chlorides 7800 ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud	1616		PSI	Recorder No.	10991	T-On Location	0000
(B) First Initial Flow Pressure	11		PSI	(depth)	3453'	T-Started	0100
(C) First Final Flow Pressure	11		PSI	Recorder No.	13769	T-Open	0505
(D) Initial Shut-In Pressure	191		PSI	(depth)	3446'	T-Pulled	0550
(E) Second Initial Flow Pressure	21		PSI	Recorder No.		T-Out	0715
(F) Second Final Flow Pressure	21		PSI	(depth)		T-Off Location	
(G) Final Shut-in Pressure	85		PSI	Initial Opening	30	Test	✓ 700
(Q) Final Hydrostatic Mud	1689		PSI	Initial Shut-in	45	Jars	
				Final Flow	30	Safety Joint	✓ 50
				Final Shut-in	60	Straddle	
						Circ. Sub	
						Sampler	
						Extra Packer	
						Elec. Rec.	
						Mileage	47
						Other	
						TOTAL PRICE $	797

Approved By ___

Our Representative Darren L. Ameiro