



DRILL STEM TEST REPORT

Prepared For: **ESP Development, Inc.**

17746 177 Boulevard
Paradise, KS 67658

ATTN: Bud Eulert

Bud Eulert

Eulert Ranch #G-1

Start Date: 2002.03.09 @ 14:01:37

End Date: 2002.03.09 @ 22:34:07

Job Ticket #: 15596 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



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TESTING, INC.**

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ESP Development, Inc.

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ATTN: Bud Eulert

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Job Ticket: 15596

DST#: 1

Test Start: 2002.03.09 @ 14:01:37

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 16:02:37

Time Test Ended: 22:34:07

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3322.00 ft (KB) To 3346.00 ft (KB) (TVD)**

Total Depth: **3346.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1876.00 ft (KB)**

1871.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 3017 **Inside**

Press@RunDepth: **254.08 psig @ 3323.01 ft (KB)**

Start Date: **2002.03.09**

End Date:

2002.03.09

Start Time: **14:01:38**

End Time:

22:34:07

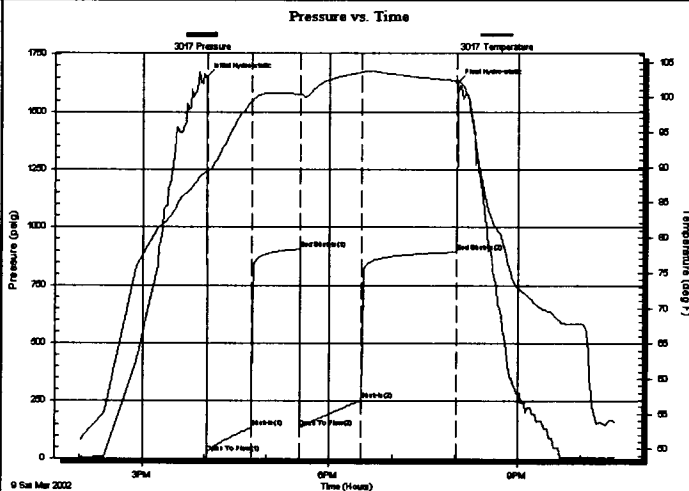
Capacity: **7000.00 psig**

Last Calib.: **2002.03.09**

Time On Btrr: **2002.03.09 @ 16:01:37**

Time Off Btrr: **2002.03.09 @ 20:01:37**

TEST COMMENT: **F-Good B.O.B. in 14 min.** **IS- weak blow**
FF-Good B.O.B. in 18 min. **FSI-no blow**



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1650.37	89.41	Initial Hydro-static
1	25.91	89.56	Open To Flow (1)
44	135.61	99.44	Shut-in (1)
90	905.76	100.46	End Shut-in (1)
90	135.69	100.44	Open To Flow (2)
149	254.08	103.55	Shut-in (2)
240	893.20	102.35	End Shut-in (2)
240	1625.46	102.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	O-W-C-M--20%O--30%-W--50% M	0.84
125.00	W-M-C-O--5%W--40%M--55%O	1.75
405.00	Free Oil	5.68

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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TOOL DIAGRAM

ESP Development, Inc.

Eulert Ranch #G-1

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Paradise, KS 67658

Bud Eulert

Job Ticket: 15596

DST#: 1

ATTN: Bud Eulert

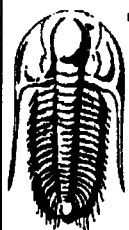
Test Start: 2002.03.09 @ 14:01:37

Tool Information

Drill Pipe:	Length: 3310.00 ft	Diameter: 3.80 inches	Volume: 46.43 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 46.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3322.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.02 ft			
Tool Length:	44.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3303.00	
S.I. Tool	5.00			3308.00	
HMV	5.00			3313.00	
Packer	4.00			3317.00	20.00 Bottom Of Top Packer
Packer	5.00			3322.00	
Stubb	1.00			3323.00	
Recorder	0.01	3017	Inside	3323.01	
Perforations	20.00			3343.01	
Recorder	0.01	13308	Outside	3343.02	
Bullnose	3.00			3346.02	24.02 Bottom Packers & Anchor
Total Tool Length:	44.02				



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FLUID SUMMARY

ESP Development, Inc.

Eulert Ranch #G-1

17746 177 Boulevard
Paradise, KS 67658

Bud Eulert

Job Ticket: 15596

DST#: 1

ATTN: Bud Eulert

Test Start: 2002.03.09 @ 14:01:37

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

23000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	O-W-C-M-20%O--30%-W--50% M	0.842
125.00	W-M-C-O--5%W--40%M--55%O	1.753
405.00	Free Oil	5.681

Total Length: 590.00 ft Total Volume: 8.276 bbf

Num Fluid Samples: 0

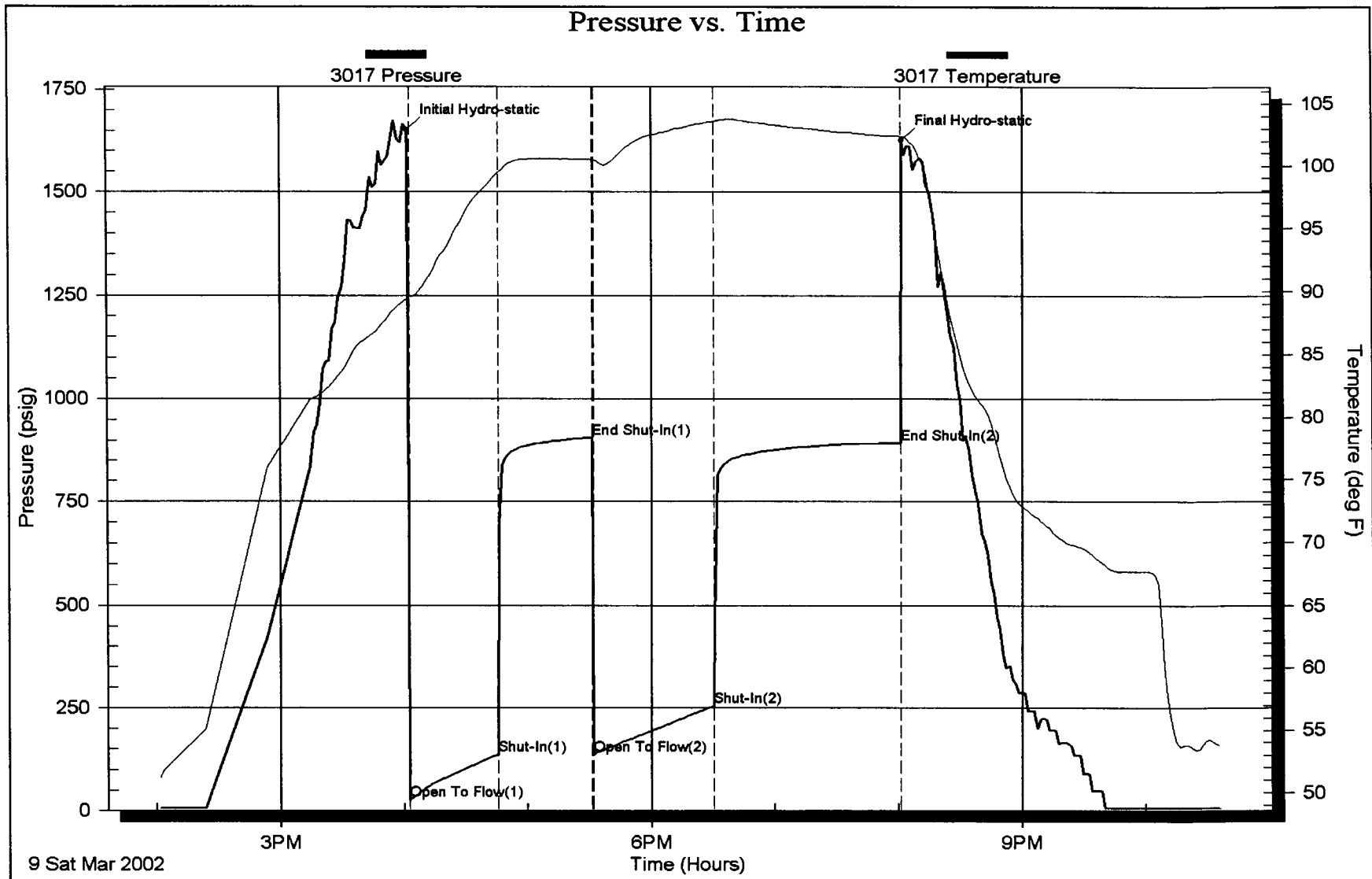
Num Gas Bombs: 0

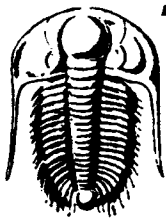
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .6@52F





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15596

Test Ticket

Well Name & No. EULERT RANCH #6-1 Test No. #1 Date 3-9-02
 Company ESP DEVELOPMENT, INC. Zone Tested ARBUCKLE
 Address 17746 177th BOULEVARD PARADISE KS, 67658 Elevation 1876 KB 1871 GL
 Co. Rep / Geo. RANDY KILIAN Cont. VONFELDT #1 Est. Ft. of Pay Por. %
 Location: Sec. 21 Twp. 11S Rge. 15W Co. RUSSELL State KS
 No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 3322 To 3346 Initial Str Wt./Lbs. 42,000 Unseated Str Wt./Lbs. 43,000
 Anchor Length 24' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 50,000
 Top Packer Depth 3317 Tool Weight 2,000
 Bottom Packer Depth 3322 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 3346 Wt. Pipe Run 0 Drill Collar Run 0
 Mud Wt. 9.4 LCM TR Vis. 48 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 3310
 Blow Description IF - GOOD BLOW B.O.B. IN 14 MIN. ISI - WEAK BLOW
FF - GOOD BLOW B.O.B. IN 18 MIN. FSI - NO BLOW

Recovery — Total Feet 590 GIP Ft. in DC Ft. in DP 590
 Rec. 60' Feet Of 0-W.C MUD %gas 20 %oil 30 %water 50 %mud
 Rec. 125' Feet Of MWOC OIL %gas 55 %oil 5 %water 40 %mud
 Rec. 405 Feet Of FREE OIL %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 BHT 102° °F Gravity 29 °API D@ 60 °F Corrected Gravity 29 °API
 RW .6 @ 52 °F Chlorides 23,000 ppm Recovery Chlorides 5,000 ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud		<u>1661</u>	PSI	Recorder No. <u>3017</u>	T-On Location <u>13:00</u>
(B) First Initial Flow Pressure		<u>25</u>	PSI	(depth) <u>3323</u>	T-Started <u>14:01</u>
(C) First Final Flow Pressure		<u>133</u>	PSI	Recorder No. <u>13308</u>	T-Open <u>15:53</u>
(D) Initial Shut-In Pressure		<u>905</u>	PSI	(depth) <u>3343</u>	T-Pulled <u>19:53</u>
(E) Second Initial Flow Pressure		<u>135</u>	PSI	Recorder No. <u> </u>	T-Out <u>22:34</u>
(F) Second Final Flow Pressure		<u>254</u>	PSI	(depth) <u> </u>	T-Off Location <u>23:30</u>
(G) Final Shut-in Pressure		<u>893</u>	PSI	Initial Opening <u>45</u>	Test <u>BOTTOM HOLE 700</u>
(Q) Final Hydrostatic Mud		<u>1625</u>	PSI	Initial Shut-in <u>45</u>	Jars <u> </u>
				Final Flow <u>60</u>	Safety Joint <u> </u>
				Final Shut-in <u>90</u>	Straddle <u> </u>
					Circ. Sub <u> </u>
					Sampler <u> </u>
					Extra Packer <u> </u>
					Elec. Rec. <input checked="" type="checkbox"/> <u>150</u>
					Mileage <u>30</u>
					Other <u>1.5 45</u>
					TOTAL PRICE \$ <u>925</u>

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Approved By Randy Kilian

Our Representative John A. Schmidt

CHART PAGE

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

