

## DRILL STEM TEST REPORT

Prepared For: **Enerstar Resources**

P.O. Box 606  
Carlsbad NM. 88220

ATTN: Bob Blundell

**12-2S-24W Norton KS.**

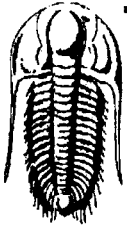
**Julie #1**

Start Date: 2001.06.14 @ 07:55:00

End Date: 2001.06.14 @ 14:19:00

Job Ticket #: 13764                      DST #: 1

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Enerstar Resources  
P.O. Box 606  
Carlsbad NM. 88220  
ATTN: Bob Blundell

**Julie #1**  
**12-2S-24W Norton KS.**  
Job Ticket: 13764      **DST#: 1**  
Test Start: 2001.06.14 @ 07:55:00

## GENERAL INFORMATION:

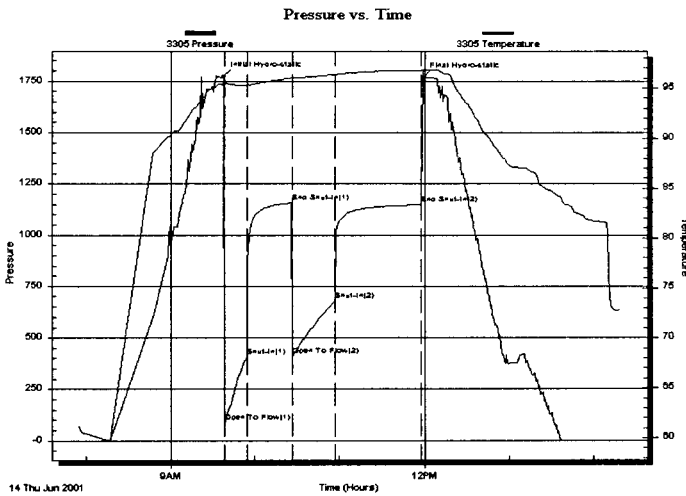
Formation: **L/KC "G"**  
Deviated: **No Whipstock:**      **ft (KB)**  
Time Tool Opened: 09:38:30  
Time Test Ended: 14:19:00  
Interval: **3638.00 ft (KB) To 3675.00 ft (KB) (TVD)**  
Total Depth: **3675.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole**  
Tester: **Rod Steinbrink**  
Unit No: **12**  
Reference Elevations: **2500.00 ft (KB)**  
**2495.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

## Serial #: 3305

**Inside**

Press@RunDepth: **679.95 psig @ 3639.00 ft (KB)**      Capacity: **7000.00 psig**  
Start Date: **2001.06.14**      End Date: **2001.06.14**      Last Calib.: **2001.01.18**  
Start Time: **07:55:02**      End Time: **14:19:00**      Time On Btm: **2001.06.14 @ 09:37:15**  
Time Off Btm: **2001.06.14 @ 11:58:45**

TEST COMMENT: IF; Fair to strong blow off btm in 3 mins.  
IS; No return blow  
FF; Fair to strong blow off btm in 4 mins  
FSI; No return blow



## PRESSURE SUMMARY

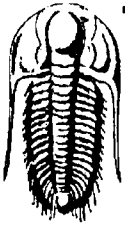
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1771.85	95.46	Initial Hydro-static
2	88.88	95.57	Open To Flow (1)
18	406.62	95.34	Shut-In(1)
50	1156.62	96.04	End Shut-In(1)
50	412.61	96.11	Open To Flow (2)
80	679.95	96.38	Shut-In(2)
141	1147.38	96.78	End Shut-In(2)
142	1765.83	96.82	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1415.00	Salt Water	15.07

## Gas Rates

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



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TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Enerstar Resources  
P.O. Box 606  
Carlsbad NM. 88220  
ATTN: Bob Blundell

**Julie #1**  
**12-2S-24W Norton KS.**  
Job Ticket: 13764      **DST#: 1**  
Test Start: 2001.06.14 @ 07:55:00

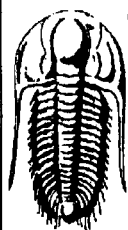
**Tool Information**

Drill Pipe:	Length: 2894.00 ft	Diameter: 3.80 inches	Volume: 40.60 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 745.00 ft	Diameter: 2.80 inches	Volume: 5.67 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 46.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3638.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3616.00	
HMV	5.00			3621.00	
Jars	5.00			3626.00	
Safety Joint	2.00			3628.00	
Packer	5.00			3633.00	27.00      Bottom Of Top Packer
Packer	5.00			3638.00	
Stubb	1.00			3639.00	
Recorder	0.00	3305	Inside	3639.00	
Perforations	1.00			3640.00	
Anchor	31.00			3671.00	
Recorder	0.00	13339	Outside	3671.00	
Bullnose	5.00			3676.00	38.00      Bottom Packers & Anchor

**Total Tool Length: 65.00**



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## DRILL STEM TEST REPORT

FLUID SUMMARY

Enerstar Resources

Julie #1

P.O. Box 606  
Carlsbad NM. 88220

12-2S-24W Norton KS.

ATTN: Bob Blundell

Job Ticket: 13764

DST#: 1

Test Start: 2001.06.14 @ 07:55:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	30000 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 500.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1415.00	Salt Water	15.072

Total Length: 1415.00 ft      Total Volume: 15.072 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

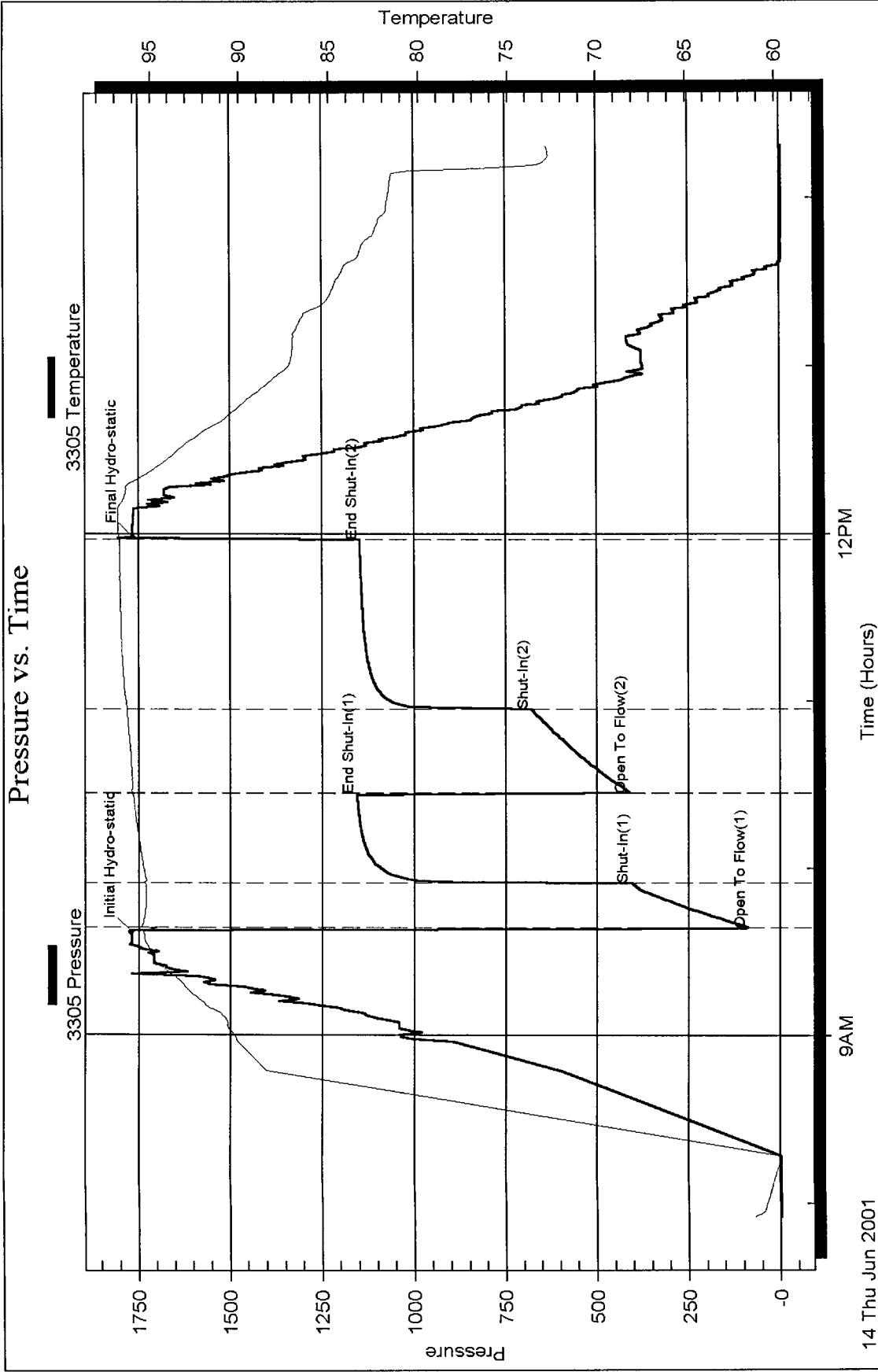
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .21 @ 80 deg =

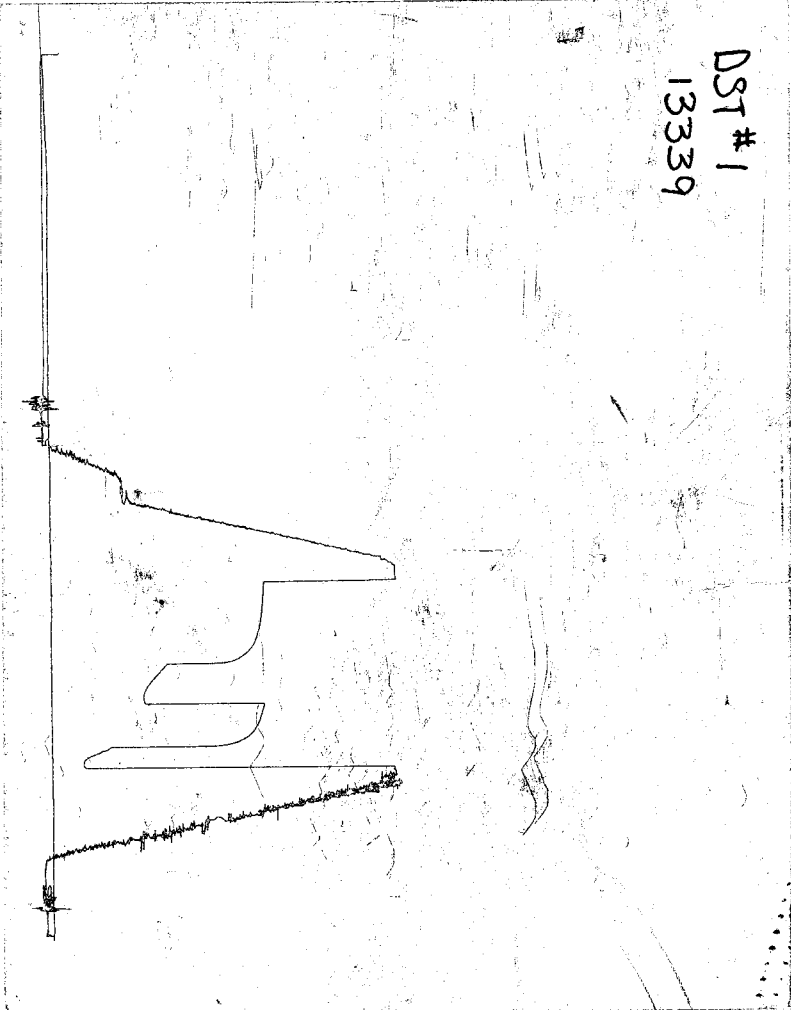
### Pressure vs. Time



**CHART PAGE**

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

DST # 1  
13339



# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N<sup>o</sup> 13764

## Test Ticket

Well Name & No. <u>Julie #1</u>	Test No. <u>1</u>	Date <u>6-14-01</u>
Company <u>Enerstar Resources</u>	Zone Tested <u>L/KC 'G'</u>	
Address <u>P.O. Box 606 Carlsbad NM. 88220</u>	Elevation <u>2500</u> KB <u>2495</u> GL	
Co. Rep / Geo. <u>Bob Blundell / Dick Cont.</u>	<u>A &amp; A Drlg #</u>	Est. Ft. of Pay <u>    </u> Por. <u>    </u> %
Location: Sec. <u>12</u> Twp. <u>2<sup>s</sup></u> Rge. <u>24<sup>w</sup></u>	Co. <u>Norton</u>	State <u>KS</u>
No. of Copies <u>    </u>	Distribution Sheet (Y, N) <u>    </u>	Turnkey (Y, N) <u>    </u> Evaluation (Y, N) <u>    </u>

Interval Tested <u>3638 - 3675</u>	Initial Str Wt./Lbs. <u>54,000</u>	Unseated Str Wt./Lbs. <u>64,000</u>
Anchor Length <u>37'</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>75,000</u>
Top Packer Depth <u>3633</u>	Tool Weight <u>1,800</u>	
Bottom Packer Depth <u>3638</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>3675</u>	Wt. Pipe Run <u>745'</u>	Drill Collar Run <u>    </u>
Mud Wt. <u>9.2</u> LCM <u>0</u> Vis. <u>47</u> WL <u>8.4</u>	Drill Pipe Size <u>4 1/2" FH</u>	Ft. Run <u>2894'</u>
Blow Description <u>IF: Fair to strong blow off bttm in 3 mins.</u>		
<u>ISI: No return blow</u>		
<u>FF: Fair to strong blow off bttm in 4 mins.</u>		
<u>FSI: No return blow</u>		

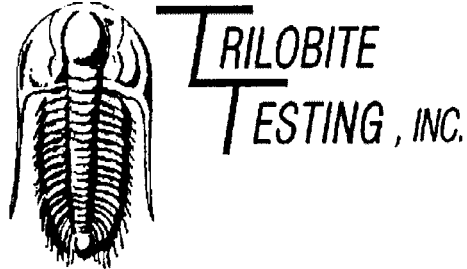
Recovery — Total Feet <u>1415'</u>	GIP <u>    </u>	Ft. in DC <u>    </u>	Ft. in DP <u>1415'</u>
Rec. <u>    </u> Feet Of <u>    </u>	%gas <u>    </u>	%oil <u>    </u>	%water <u>    </u> %mud <u>    </u>
Rec. <u>    </u> Feet Of <u>    </u>	%gas <u>    </u>	%oil <u>    </u>	%water <u>    </u> %mud <u>    </u>
Rec. <u>1415'</u> Feet Of <u>Salt Water</u>	%gas <u>    </u>	%oil <u>    </u>	%water <u>    </u> %mud <u>    </u>
Rec. <u>    </u> Feet Of <u>    </u>	%gas <u>    </u>	%oil <u>    </u>	%water <u>    </u> %mud <u>    </u>
Rec. <u>    </u> Feet Of <u>    </u>	%gas <u>    </u>	%oil <u>    </u>	%water <u>    </u> %mud <u>    </u>
BHT <u>96°</u> °F Gravity <u>    </u>	°API D@ <u>    </u>	°F Corrected Gravity <u>    </u>	°API <u>    </u>
RW <u>.21</u> @ <u>80°</u> °F	Chlorides <u>30,000</u> ppm	Recovery <u>    </u>	Chlorides <u>500</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1771</u> Alpine	PSI Recorder No. <u>3305</u>	T-On Location <u>D600</u>
(B) First Initial Flow Pressure	<u>88</u> PSI	(depth) <u>3639</u>	T-Started <u>09300755</u>
(C) First Final Flow Pressure	<u>406</u> PSI	Recorder No. <u>13339</u>	T-Open <u>0938</u>
(D) Initial Shut-In Pressure	<u>1156</u> PSI	(depth) <u>3670</u>	T-Pulled <u>1157</u>
(E) Second Initial Flow Pressure	<u>412</u> PSI	Recorder No. <u>    </u>	T-Out <u>1419</u>
(F) Second Final Flow Pressure	<u>679</u> PSI	(depth) <u>    </u>	T-Off Location <u>    </u>
(G) Final Shut-in Pressure	<u>1147</u> PSI	Initial Opening <u>15</u>	Test <u>700</u>
(Q) Final Hydrostatic Mud	<u>1765</u> PSI	Initial Shut-in <u>30</u>	Jars <u>X</u> <u>200</u>
		Final Flow <u>30</u>	Safety Joint <u>X</u> <u>50</u>
		Final Shut-in <u>60</u>	Straddle <u>    </u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature]  
 Our Representative Rod Steinbrink

Extra Packer       
 Elec. Rec. X 150  
 Mileage 137 105  
 Other       
 TOTAL PRICE \$ 1265



## DRILL STEM TEST REPORT

Prepared For: **Enerstar Resources**

P.O. Box 606  
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ATTN: Bob Blundell

**12-2S-24W Norton KS.**

**Julie #1**

Start Date: 2001.06.15 @ 05:01:06

End Date: 2001.06.15 @ 14:36:05

Job Ticket #: 14672                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Enerstar Resources

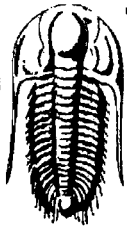
Julie #1

12-2S-24W Norton KS.

DST # 2

Arbuckle

2001.06.15



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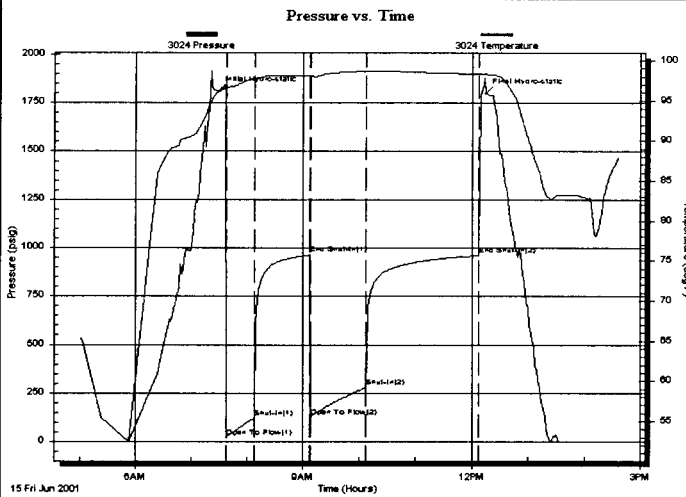
**Julie #1**  
**12-2S-24W Norton KS.**  
Job Ticket: 14672      **DST#: 2**  
Test Start: 2001.06.15 @ 05:01:06

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 07:37:35  
Time Test Ended: 14:36:05  
Interval: **3739.00 ft (KB) To 3756.00 ft (KB) (TVD)**  
Total Depth: 3756.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Ray Schwager  
Unit No: 16  
Reference Elevations: 2500.00 ft (KB)  
2495.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 3024      Inside**  
Press@RunDepth: 281.21 psig @ 3740.01 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2001.06.15      End Date: 2001.06.15      Last Calib.: 2001.01.15  
Start Time: 05:01:06      End Time: 14:36:05      Time On Btm: 2001.06.15 @ 07:28:35  
Time Off Btm: 2001.06.15 @ 12:15:05

TEST COMMENT: IFP-w k to gd bl 1/2" to 7" bl IFP-w k to gd bl 1" to 7 1/2" bl times 30-60-60-120



## PRESSURE SUMMARY

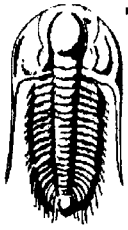
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1809.77	96.14	Initial Hydro-static
9	21.25	96.60	Open To Flow (1)
39	121.27	97.71	Shut-In(1)
99	962.77	98.05	End Shut-In(1)
99	126.96	98.05	Open To Flow (2)
159	281.21	98.63	Shut-In(2)
279	959.17	98.32	End Shut-In(2)
287	1798.83	98.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
540.00	Water with show of oil	3.82
68.00	SOCMV 1% oil 15% mud 84% water	0.48
2.00	Oil	0.01

## Gas Rates

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



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## DRILL STEM TEST REPORT

TOOL DIAGRAM

Enerstar Resources

Julie #1

P.O. Box 606  
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12-2S-24W Norton KS.

Job Ticket: 14672

DST#: 2

ATTN: Bob Blundell

Test Start: 2001.06.15 @ 05:01:06

### Tool Information

Drill Pipe:	Length: 2984.00 ft	Diameter: 3.80 inches	Volume: 41.86 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 745.00 ft	Diameter: 2.70 inches	Volume: 5.28 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: lb
			Total Volume: 47.14 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3739.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.02 ft			
Tool Length:	44.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

S.I. Tool	5.00			3717.00	
HMV	5.00			3722.00	
Jars	5.00			3727.00	
Safety Joint	2.00			3729.00	
Packer	5.00			3734.00	27.00 Bottom Of Top Packer
Packer	5.00			3739.00	
Stubb	1.00			3740.00	
Recorder	0.01	3024	Inside	3740.01	
Perforations	13.00			3753.01	
Recorder	0.01	11085	Outside	3753.02	
Bullnose	3.00			3756.02	17.02 Bottom Packers & Anchor

**Total Tool Length: 44.02**



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**FLUID SUMMARY**

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12-2S-24W Norton KS.

ATTN: Bob Blundell

Job Ticket: 14672

DST#: 2

Test Start: 2001.06.15 @ 05:01:06

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	34000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.75 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
540.00	Water with show of oil	3.824
68.00	SOCMW 1% oil 15%mud 84%w ater	0.482
2.00	Oil	0.014

Total Length: 610.00 ft      Total Volume: 4.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time

