

ORIGINAL

9/8/13

Form ACO-1
June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

CONFIDENTIAL

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 4767
Name: Ritchie Exploration, Inc.
Address 1: P.O. Box 783188
Address 2: _____
City: Wichita State: KS Zip: 67278 + 3188
Contact Person: Peter Fiorini
Phone: (316) 691-9500
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Adam Eldani
Purchaser: NCRA

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SIOW
 Gas D&A ENHR SIGW
 OG GSW Temp. Abd.
 CM (Coal Bed Methane)
 Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:
Operator: _____
Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

5/11/11	5/22/11	5/22/11
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 057-20727-00-00
Spot Description: irregular section
_____ Sec. 5 Twp. 26 S. R. 22 East West
1,635 Feet from North / South Line of Section
147 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Ford
Lease Name: Imel-Nau Well #: 1
Field Name: _____

Producing Formation: Cherokee & Atoka
Elevation: Ground: 2411 Kelly Bushing: 2423
Total Depth: 4967 Plug Back Total Depth: 4937
Amount of Surface Pipe Set and Cemented at: 384 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 1448 Feet
If Alternate II completion, cement circulated from: surface
feet depth to: 1448 w/ 250 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 9200 ppm Fluid volume: 1200 bbls
Dewatering method used: evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____

RECEIVED
SEP 08 2011
KCC WICHITA
CONFIDENTIAL
SEP 08 2013

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078 Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

AFFIDAVIT
I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.
Signature: _____
Title: Development/Production Geologist Date: 9/8/11

KCC Office Use ONLY
 Letter of Confidentiality Received
Date: 9/8/11 - 9/8/13
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: [Signature] Date: 9-2-11

Operator Name: Ritchie Exploration, Inc. Lease Name: Imel-Nau Well #: 1
 Sec. 5 Twp. 26 S. R. 22 East West County: Ford

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets) Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If no, Submit Copy)	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum SEE ATTACHED
List All E. Logs Run: Dual Induction Log Compensated Density/Neutron Log	

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4	8-5/8	23	384	common	250	3% cc, 2% gel
Production	7-7/8	5-1/2	15.5	4962	ASC	210	10% salt, 2% gel & 5#/cc gilsonite

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4838.5' - 4843.5', 4846.5' - 4859.5'(Cherokee) 6/3/11	500 gallons 15% NE (6/6/11), 500 gallons 15% NE (6/8/11)	
4	4852' - 4855' (Atoka) 6/7/11	500 gallons 15% NE (6/8/11)	
4	4810' - 4813', 4823.5'-4826.5', 4830.5'-4833.5'(Cherokee) 6/9/11		
		CONFIDENTIAL	
		SEP 08 2013	
		KCC	KCC WICHITA
TUBING RECORD: Size: <u>2-7/8"</u> Set At: <u>4909'</u> Packer At: <u> </u> Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First, Resumed Production, SWD or ENHR. <u>6/16/11</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) <u> </u>	
Estimated Production Per 24 Hours	Oil Bbls. <u>47.96</u>	Gas Mcf <u> </u>	Water Bbls. <u>0</u> Gravity <u>30.04</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4) <input type="checkbox"/> Other (Specify) <u> </u>	PRODUCTION INTERVAL: <u> </u> <u> </u>
--	--	--



RITCHIE

EXPLORATION, INC.
Wichita, Kansas

#1 Imel-Nau

1635' FSL & 147' FEL

Irregular Section 5-26S-22W

Ford County, Kansas

API# 15-057-20727-0000

Elevation: 2411' GL: 2423' KB

<u>Sample Tops</u>			<u>Ref.</u> <u>Well</u>
Anhydrite	1485'	+938	+4
B/Anhydrite	1516'	+907	+2
Stotler	3486'	-1063	+1
Heebner	4104'	-1681	+5
Lansing	4217'	-1794	+2
Muncie Shale	4397'	-1974	+2
Stark Shale	4497'	-2074	flat
BKC	4593'	-2170	+2
Altamont	4642'	-2219	+5
Pawnee	4721'	-2298	+2
Fort Scott	4752'	-2329	+3
Cherokee Shale	4770'	-2347	+5
Atoka Shale	4848'	-2425	+2
Mississippian	4872'	-2449	-3
RTD	4967'	-2544	

RECEIVED

SEP 08 2011

KCC WICHITA

CONFIDENTIAL

SEP 08 2013

KCC

ALLIED CEMENTING CO., LLC. 038747

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Cassat Bendles

DATE <u>5-12-11</u>	SEC. <u>5</u>	TWP. <u>26S</u>	RANGE <u>22W</u>	CALLED OUT	ON LOCATION	JOB START <u>1030pm</u>	JOB FINISH <u>1100pm</u>
LEASE <u>Imetman</u>	WELL # <u>1</u>	LOCATION <u>Spawville sec 4 south west</u>			COUNTY <u>Ford</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			into				

CONTRACTOR Ritchie Expl. Inc OWNER Ritchie Expl. Inc

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 387

CASING SIZE 8 3/8 DEPTH 384

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 387

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15 ft

PERFS. _____

DISPLACEMENT _____

CEMENT
AMOUNT ORDERED 250 sq class A 3% gel

COMMON	<u>250</u>	@ <u>16.25</u>	<u>4062.50</u>
POZMIX		@	
GEL	<u>5</u>	@ <u>21.25</u>	<u>106.25</u>
CHLORIDE	<u>9</u>	@ <u>58.20</u>	<u>523.80</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>267</u>	@ <u>2.25</u>	<u>599.25</u>
MILEAGE	<u>264 x 724.11</u>		<u>2090.88</u>
TOTAL			<u>7377.38</u>

EQUIPMENT

PUMP TRUCK CEMENTER Bobby Bobb

224 HELPER Bobby Bobb

BULK TRUCK

344-170 DRIVER YOUTH / Larry S

BULK TRUCK

_____ DRIVER _____

REMARKS:

Break circulation with 5% mud
Run 5bbbl Freshwater ahead mix 250sq class A
3% gel
shut down pump - release plug - began displacement
with 23.5 bbl water
cement and circulate shut plug on

SERVICE

DEPTH OF JOB	<u>384</u>		
PUMP TRUCK CHARGE			<u>1125.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>144</u>	@ <u>7.00</u>	<u>1008.00</u>
MANIFOLD		@	
light Truck	<u>144</u>	@ <u>4.00</u>	<u>576.00</u>
		@	
TOTAL			<u>2709.00</u>

CHARGE TO: Ritchie Expl. Inc

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

Rubber plug	@ <u>112.00</u>	<u>112.00</u>
Head + manifold	@ <u>200.00</u>	<u>200.00</u>
	@	
	@	
	@	
TOTAL <u>312.00</u>		

RECEIVED

SEP 08 2011

KCC WICHITA

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Mike Coffray

SIGNATURE Mike Coffray
Thank you!

SALES TAX (if Any) _____

TOTAL CHARGES 2709.00

DISCOUNT 2397.00 IF PAID IN 30 DAYS

CONFIDENTIAL

SEP 08 2013

KCC



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 03910 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>5-26-11</u> DISTRICT <u>KANSAS</u>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:								
CUSTOMER <u>Ritchie Exploration</u>		LEASE <u>IMEI-NA4</u> WELL NO# <u>1</u>								
ADDRESS		COUNTY <u>Ford</u> STATE <u>Ks</u>								
CITY STATE		SERVICE CREW <u>Allen, TJ, Linda, Martin</u>								
AUTHORIZED BY		JOB TYPE: <u>open 5 1/2" Packer/annular seal</u>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>28443 P.U.</u>	<u>1 1/2</u>						<u>5-26-11</u>			<u>700</u>
<u>27808 Pt</u>	<u>1 1/2</u>					ARRIVED AT JOB	<u>5-26-11</u>			<u>1200</u>
<u>19825-19883</u>	<u>1 1/2</u>					START OPERATION	<u>5-26-11</u>			<u>2200</u>
						FINISH OPERATION	<u>5-26-11</u>			<u>330</u>
						RELEASED	<u>5-26-11</u>			<u>400</u>
						MILES FROM STATION TO WELL				<u>55 miles</u>

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL103	60/40 Poz	SK	250		\$ 3000.00
CC200	Cement Gel	lb	2.5		\$
CC102	Cell Flake	lb			\$ 6
CC151	MUP Flush	gal	500		\$ 430.00
C2410	Cotton Seed Halls	lb	50		\$ 17.50
E101	Heavy Equip mileage	Mi	170		\$ 1190.00
CF240	Blending & mixing Service chg	SK	4		\$ 665.00
E113	Bulk Del. Chg	Tm	1739		\$ 2782.40
CF202	Depth Charge 1001-2000	ft	1		\$ 1500.00
E100	unit mileage charge pickup	Mi	85		\$ 361.25
S003	Service Supervisor est & his value	EA	1		\$ 125.00

RECEIVED
SEP 08 2011
KCC WICHITA

CONFIDENTIAL SUB TOTAL **7385.53**

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	SEP 08 2011	% TAX ON \$
MATERIALS		% TAX ON \$
KCC		TOTAL

~~87537.77~~

SERVICE REPRESENTATIVE Allen & Worth THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: For Ritchie
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____



1700 S. Country Estates Rd.
P.O. Box 129
Liberal, Kansas 67905
Phone 620-624-2277

FIELD SERVICE TICKET

1717 01732 A

DATE _____ TICKET NO. _____

DATE OF JOB: 5/22/11	DISTRICT: 1717	NEW WELL <input type="checkbox"/>	OLD WELL <input checked="" type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:
CUSTOMER: Ritchie Exploration		LEASE: EMEL-NAU		WELL NO.:		1	
ADDRESS:		COUNTY: Ford		STATE: KS			
CITY:		STATE:		SERVICE CREW: Royce, Sose			
AUTHORIZED BY: Tyce JRB		JOB TYPE: 5 1/2 L.S. P.C. 742					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED: 5/21/11	ARR: 6:00
19555	3					ARRIVED AT JOB: 10:20	ARR: 10:20
30463	3					START OPERATION: 5/22/11	ARR: 3:00
19543	3					FINISH OPERATION:	ARR: 5:45
14354	3					RELEASED:	ARR: 6:30
14250	3					MILES FROM STATION TO WELL:	85

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only these terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL105	AA-2 Cement	SK	260		4732.00
CC113	Gypsum	lb	1225		918.75
CC111	Salt	lb	1447		721.00
CC201	Gilsonite	lb	1300		871.00
CC103	C-15	lb	123		1537.50
CC107	C-42p	lb	82		496.00
CF251	Guide Shoe 5/8"	EA	1		250.00
CF1451	Flapper & float Valve, 5/8"	EA	1		215.00
CF1778	Centralizer 5.5" x 7 1/8" Turbo	EA	7		525.00
CF481	Flow Control Collar 5/8"	EA	1		3500.00
CF183	Top Roller Plug 5/8"	EA	1		105.00
CC151	mod Flush	gal	430		430.00
E101	Heavy Vehicle M. lease	M	170		1190.00
CE240	Bulk + mixing Charge	SK	260		364.00
E113	Bulk Delivered	Tm	1042		1667.25
CE205	Depth Charge 401-5000	shr	1		2520.00
CE501	Plug Controller	SDO	1		250.00
E100	Pickup M. lease	M	85		361.25
5003	Service Supervisor	EA	1		175.00
SUB TOTAL					15,039.59

CHEMICAL / ACID DATA:			

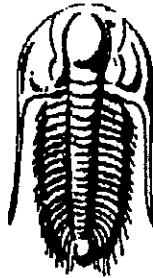
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: Chad Amz THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____ SEP 08 2011

CONFIDENTIAL

(WELL OWNER OPERATOR CONTRACTOR OR AGENT) KCC

FIELD SERVICE ORDER NO.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd St N #700
Wichita, KS 67278

ATTN: Adam Eldani

5-26S-22W Ford,KS

Imel-Nau #1

Start Date: 2011.05.18 @ 14:38:46

End Date: 2011.05.18 @ 16:12:01

Job Ticket #: 042444 DST #: 1

RECEIVED

SEP 08 2011

KCC WICHITA

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

CONFIDENTIAL

Printed: 2011.05.25 @ 16:16:54 Page 1

KCC

Ritchie Exploration Inc

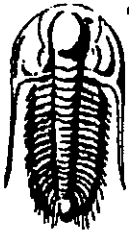
Imel-Nau #1

5-26S-22W Ford,KS

DST # 1

Altamont

2011.05.18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration Inc
8100 E 22nd St N #700
Wichita, KS 67278
ATTN: Adam Edani

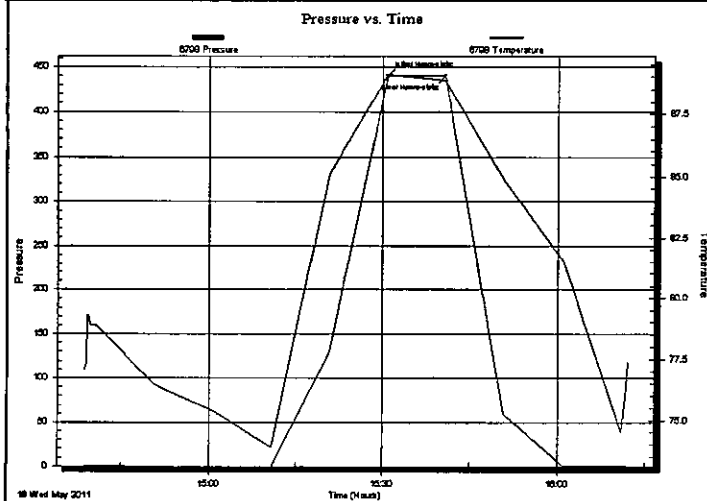
Imel-Nau #1
5-26S-22W Ford,KS
Job Ticket: 042444 **DST#: 1**
Test Start: 2011.05.18 @ 14:38:46

GENERAL INFORMATION:

Formation: **Altamont**
Deviated: No Whipstock ft (KB)
Time Tool Opened: 15:20:46
Time Test Ended: 16:12:01
Interval: **4621.00 ft (KB) To 4690.00 ft (KB) (TVD)**
Total Depth: 4690.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:
Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 45
Reference Elevations: 2423.00 ft (KB)
2411.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6798 Inside
Press@RunDepth: psig @ 4622.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.05.18 End Date: 2011.05.18 Last Calib.: 2011.05.18
Start Time: 14:38:47 End Time: 16:12:01 Time On Btm: 2011.05.18 @ 15:30:46
Time Off Btm: 2011.05.18 @ 15:40:46

TEST COMMENT: Hit Bridge 1000 feet in, Laid Tool Back Down



PRESSURE SUMMARY

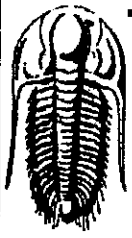
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	440.17	89.10	Initial Hydro-static
10	440.21	88.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

Imel-Nau #1

8100 E 22nd St N#700
Wichita, KS 67278

5-26S-22W Ford,KS

Job Ticket: 042444

DST#: 1

ATTN: Adam Eldani

Test Start: 2011.05.18 @ 14:38:46

Tool Information

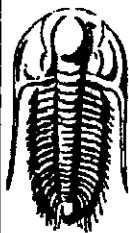
Drill Pipe:	Length: 4604.00 ft	Diameter: 3.80 inches	Volume: 64.58 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 64.58 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	lb
Depth to Top Packer:	4621.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	69.00 ft				
Tool Length:	95.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4600.00	
Hydraulic tool	5.00			4605.00	
Jars	5.00			4610.00	
Safety Joint	2.00			4612.00	
Packer	5.00			4617.00	26.00 Bottom Of Top Packer
Packer	4.00			4621.00	
Stubb	1.00			4622.00	
Recorder	0.00	6798	Inside	4622.00	
Recorder	0.00	8367	Outside	4622.00	
Perforations	27.00			4649.00	
Change Over Sub	1.00			4650.00	
Drill Pipe	32.00			4682.00	
Change Over Sub	1.00			4683.00	
Perforations	4.00			4687.00	
Bullnose	3.00			4690.00	69.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Imel-Nau #1

8100 E22nd St N#700
Wichita, KS 67278

5-26S-22W Ford,KS

Job Ticket: 042444 DST#: 1

ATTN: Adam Eldani

Test Start: 2011.05.18 @ 14:38:46

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:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4900.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

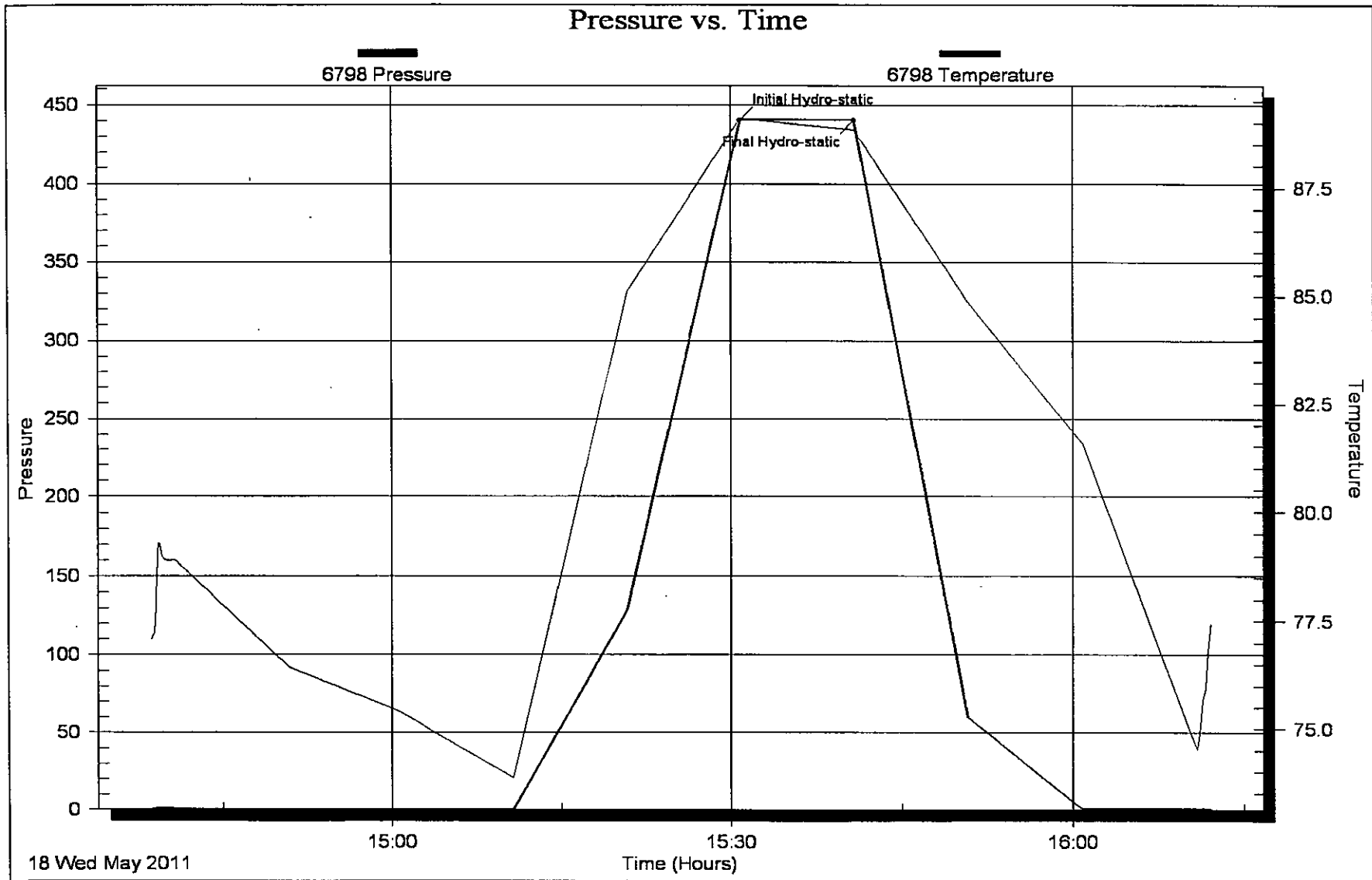
Length ft	Description	Volume bbl

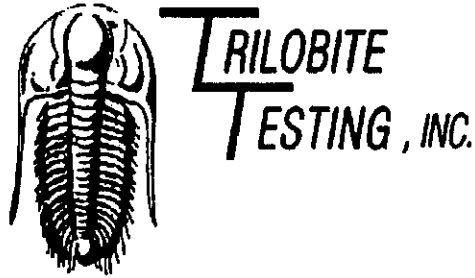
Total Length: ft Total Volume: bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd St N #700
Wichita, KS 67278

ATTN: Adam Eldani

5-26S-22W Ford,KS

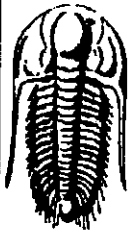
Imel-Nau #1

Start Date: 2011.05.18 @ 22:34:34

End Date: 2011.05.19 @ 06:43:04

Job Ticket #: 024445 DST #: 2

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration Inc

8100 E 22nd St N #700
Wichita, KS 67278

ATTN: Adam Eldani

Imel-Nau #1

5-26S-22W Ford,KS

Job Ticket: 024445

DST#: 2

Test Start: 2011.05.18 @ 22:34:34

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:44:34

Time Test Ended: 06:43:04

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 45

Interval: **4621.00 ft (KB) To 4690.00 ft (KB) (TVD)**

Total Depth: 4690.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2423.00 ft (KB)

2411.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6798

Inside

Press@RunDepth: 193.09 psig @ 4622.00 ft (KB)

Start Date: 2011.05.18

End Date: 2011.05.19

Start Time: 22:34:35

End Time: 06:43:04

Capacity: 8000.00 psig

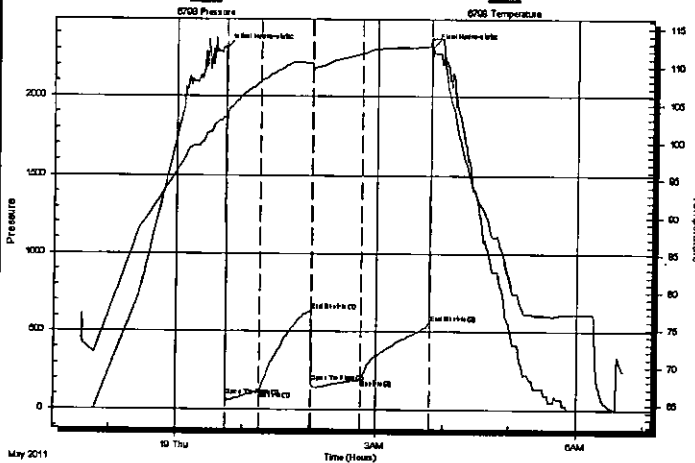
Last Calib.: 2011.05.19

Time On Btm: 2011.05.19 @ 00:43:19

Time Off Btm: 2011.05.19 @ 03:48:49

TEST COMMENT: IF: Strong Blow, BOB in 90 seconds
 IS: Bled Off, 1/4 inch Blow back
 FF: Strong Blow, BOB in 2 minutes
 FS: Bled Off, No Blow back

Pressure vs. Time



PRESSURE SUMMARY

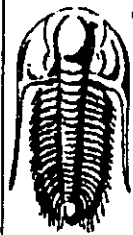
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2305.62	103.35	Initial Hydro-static
2	80.55	102.23	Open To Flow (1)
32	121.02	108.10	Shut-In (1)
78	632.12	110.47	End Shut-In (1)
78	174.92	110.28	Open To Flow (2)
123	193.09	111.73	Shut-In (2)
185	557.09	112.68	End Shut-In (2)
186	2310.20	113.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	GOCM 64%G 12%O 24%M	2.52
180.00	GMCO 40%G 10%M 50%O	2.52
90.00	OCM 10%O 90%M	1.26

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

Imel-Nau #1

8100 E 22nd St N#700
Wichita, KS 67278

5-26S-22W Ford,KS

Job Ticket: 024445

DST#: 2

ATTN: Adam Edani

Test Start: 2011.05.18 @ 22:34:34

Tool Information

Drill Pipe:	Length: 4604.00 ft	Diameter: 3.80 inches	Volume: 64.58 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 64.58 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4621.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4600.00	
Hydraulic tool	5.00			4605.00	
Jars	5.00			4610.00	
Safety Joint	2.00			4612.00	
Packer	5.00			4617.00	26.00 Bottom Of Top Packer
Packer	4.00			4621.00	
Stubb	1.00			4622.00	
Recorder	0.00	6798	Inside	4622.00	
Recorder	0.00	8367	Outside	4622.00	
Perforations	27.00			4649.00	
Change Over Sub	1.00			4650.00	
Drill Pipe	32.00			4682.00	
Change Over Sub	1.00			4683.00	
Perforations	4.00			4687.00	
Bullnose	3.00			4690.00	69.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Imel-Nau #1

8100 E 22nd St N #700
Wichita, KS 67278

5-26S-22W Ford, KS

Job Ticket: 024445

DST#: 2

ATTN: Adam Eldani

Test Start: 2011.05.18 @ 22:34:34

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:	ppm
Viscosity: 66.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4900.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	GOCM 64%G 12%O 24%M	2.525
180.00	GMCO 40%G 10%M 50%O	2.525
90.00	OCM 10%O 90%M	1.262

Total Length: 450.00 ft Total Volume: 6.312 bbl

Num Fluid Samples: 0

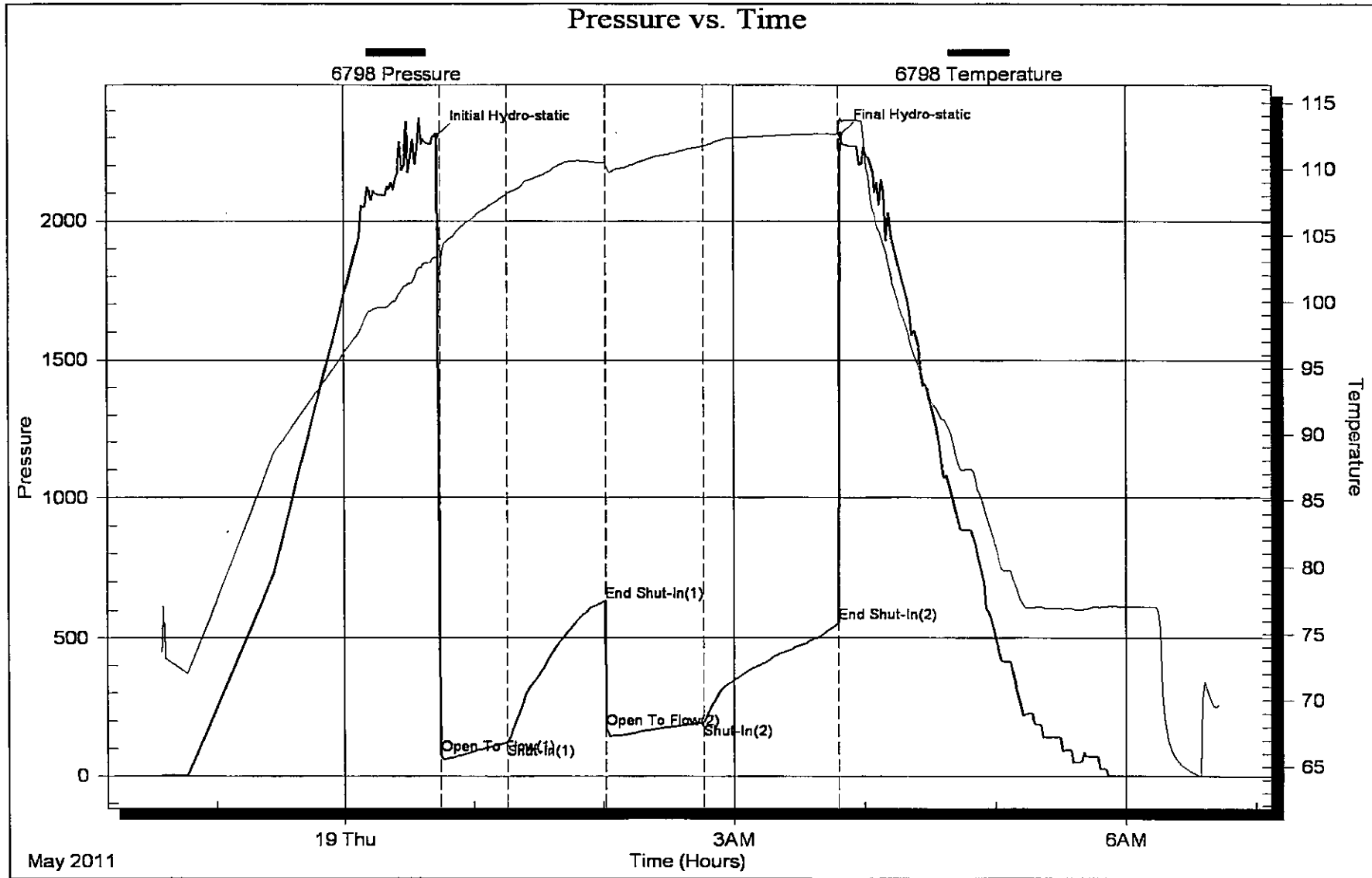
Num Gas Bombs: 0

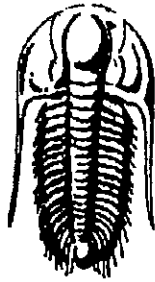
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd St N #700
Wichita, KS 67278

ATTN: Adam Eldani

5-26S-22W Ford,KS

Imel-Nau #1

Start Date: 2011.05.20 @ 05:57:36

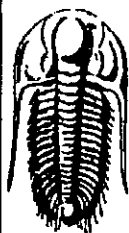
End Date: 2011.05.20 @ 15:51:36

Job Ticket #: 042446 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration Inc

8100 E22nd St N#700
Wichita, KS 67278

ATTN: Adam Eldani

Imel-Nau #1

5-26S-22W Ford,KS

Job Ticket: 042446

DST#: 3

Test Start: 2011.05.20 @ 05:57:36

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:42:36

Time Test Ended: 15:51:36

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 45

Interval: **4801.00 ft (KB) To 4852.00 ft (KB) (TVD)**

Total Depth: 4852.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2423.00 ft (KB)

2411.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6798

Inside

Press@RunDepth: 1077.51 psig @ 4802.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.20

End Date:

2011.05.20

Last Calib.: 2011.05.20

Start Time: 05:57:37

End Time:

15:51:36

Time On Btm: 2011.05.20 @ 08:40:06

Time Off Btm: 2011.05.20 @ 11:46:21

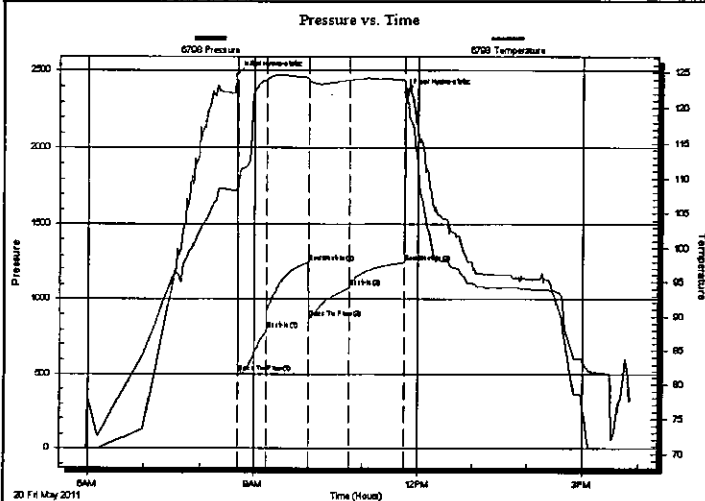
TEST COMMENT:

IF: Strong Blow, BOB in 30 seconds

IS: Bled Off, 6 inch Blow back

FS: Strong Blow, BOB in 30 seconds, GTS in 2 minutes, TSTM Caught Sample

FSI: Bled Off, 8 inch Blow back



PRESSURE SUMMARY

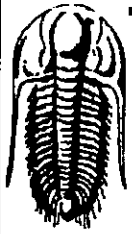
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2472.01	108.46	Initial Hydro-static
3	509.09	108.00	Open To Flow (1)
33	797.59	123.83	Shut-In(1)
80	1253.94	124.25	End Shut-In(1)
80	875.38	124.13	Open To Flow (2)
125	1077.51	123.93	Shut-In(2)
186	1251.47	123.88	End Shut-In(2)
187	2356.09	123.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1631 Feet GIP	0.00
120.00	GSY MCO 10%G 40%M 50%O	1.68
3042.00	GSY Oil 20%G 80%O	42.67

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

Imel-Nau #1

8100 E22nd St N#700
Wichita, KS 67278

5-26S-22W Ford,KS

Job Ticket: 042446

DST#: 3

ATTN: Adam Eldani

Test Start: 2011.05.20 @ 05:57:36

Tool Information

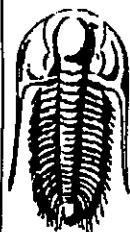
Drill Pipe:	Length: 4793.00 ft	Diameter: 3.80 inches	Volume: 67.23 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume:	67.23 bbl	Tool Chased: ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4801.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	77.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:
Dropped Bar Reversed Out

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4780.00	
Hydraulic tool	5.00			4785.00	
Jars	5.00			4790.00	
Safety Joint	2.00			4792.00	
Packer	5.00			4797.00	26.00 Bottom Of Top Packer
Packer	4.00			4801.00	
Stubb	1.00			4802.00	
Recorder	0.00	6798	Inside	4802.00	
Recorder	0.00	8367	Outside	4802.00	
Perforations	8.00			4810.00	
Change Over Sub	1.00			4811.00	
Drill Pipe	32.00			4843.00	
Change Over Sub	1.00			4844.00	
Perforations	5.00			4849.00	
Bullnose	3.00			4852.00	51.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Imel-Nau #1

8100 E 22nd St N #700
Wichita, KS 67278

5-26S-22W Ford, KS

Job Ticket: 042446

DST#: 3

ATTN: Adam Eldani

Test Start: 2011.05.20 @ 05:57:36

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 8.78 in³
Resistivity: ohm.m
Salinity: 5200.00 ppm
Filter Cake: 0.20 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 40 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1631 Feet GIP	0.000
120.00	GSY MCO 10%G 40%M 50%O	1.683
3042.00	GSY Oil 20%G 80%O	42.671

Total Length: 3162.00 ft Total Volume: 44.354 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: Oil Gravity 42 @ 80 degrees 40 Api corrected

