



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

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 #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

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.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1084893

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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ALLIED CEMENTING CO., LLC. 037761

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Met. Lebeck

DATE <i>11-12-11</i>	SEC. <i>33</i>	TWP. <i>29S</i>	RANGE <i>15W</i>	CALLED OUT	ON LOCATION	JOB START <i>7:30am</i>	JOB FINISH <i>8:30am</i>
LEASE <i>Mary Howell Prop.</i>	WELL # <i>1-33</i>	LOCATION <i>Cross 4 WS, 1 1/2 south, 1 3/4 East</i>		COUNTY	STATE		
OLD OR NEW (Circle one) <i>NEW</i>							

CONTRACTOR *M. Mesoch Drilling* OWNER *Ikka-Corn Development LLC.*

TYPE OF JOB *Surface*

HOLE SIZE *2 1/4"* T.D. *323'*

CASING SIZE *8 7/8"* DEPTH *322'*

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX *400psi* MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. *20'*

PERFS. _____

DISPLACEMENT *19 bbls H₂O*

CEMENT

AMOUNT ORDERED
300 SA 60:40:2 1/2 gal + 3 1/4 cc

COMMON <i>180</i> SACKS <i>11"</i>	@	<i>16.25</i>	<i>2925.00</i>
POZMIX <i>120</i> SACKS	@	<i>8.50</i>	<i>1020.00</i>
GEL <i>5</i> SACKS	@	<i>21.25</i>	<i>106.25</i>
CHLORIDE <i>10</i> SACKS	@	<i>58.20</i>	<i>582.00</i>
ASC	@		

EQUIPMENT

PUMP TRUCK CEMENTER *Both Amesch*

360/265 HELPER *Green Thruwash*

BULK TRUCK

364 DRIVER *J. May (G.B.)*

BULK TRUCK DRIVER _____

HANDLING <i>315</i>	@	<i>2.25</i>	<i>708.75</i>
MILEAGE <i>315 x 11 x 80</i>			<i>2712.00</i>
TOTAL			<i>\$814 -</i>

REMARKS:

Brk. re. Pump 3 bbls H₂O

MTR 300556 60:40:2 1/2 gal + 3 1/4 cc

Shot down Release Plug deep 19 bbls H₂O

Shot 90 cement and circulate

DEPTH OF JOB <i>322'</i>			
PUMP TRUCK CHARGE			<i>1125.00</i>
EXTRA FOOTAGE <i>82'</i>	@	<i>.95</i>	<i>80.90</i>
MILEAGE <i>40</i>	@	<i>7.00</i>	<i>280.00</i>
MANIFOLD	@		
Light Vehicle <i>40</i>	@	<i>4.00</i>	<i>160.00</i>
TOTAL			<i>\$1585.90</i>

CHARGE TO: *Ikka-Corn Development LLC.*

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

8 7/8

1 - wooden plug

	@	<i>92.00</i>	<i>92.00</i>
TOTAL			<i>\$92.00</i>

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 _____

SIGNATURE *Richard A. Sanyal*

SALES TAX (if Any) _____

TOTAL CHARGES *200* *\$9791.90*

DISCOUNT *Net \$ 7833.52*

IF PAID IN 30 DAYS

QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

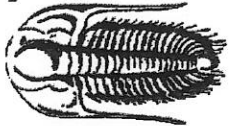
5367

Home Office 324 Simpson St., Pratt, KS 67124

Todd's Cell 620-388-5422
Office / Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	11-21-11	Sec.	33	Twp.	29	Range	15	County	PRATT	State	Ks	On Location		Finish	9:30
Lease	0224 HOWELL BHP		Well No.	1-33		Location		CROFT Ks 1 1/2 S 134 E S106							
Contractor	MINNESOTA DELS 101														
Type Job	PTA														
Hole Size	7 7/8														
Csg.	T.D.														
Tbg. Size	Depth														
Tool	Depth														
Cement Left in Csg.	Shoe Joint														
Meas Line	Displace														
EQUIPMENT															
Pumptrk	No.	1 ER00													
Bulktrk	No.	M.K.S													
Bulktrk	No.														
Pickup	No.	7000													
JOB SERVICES & REMARKS															
Rat Hole	30x 60/40 4% GEL														
Mouse Hole	20x 60/40 4% GEL														
Centralizers															
Baskets															
DM or Port Collar															
1st Plug 4825'															
50x 60/40 4% GEL															
Disp w/ mono															
FLOAT EQUIPMENT															
2nd Plug 850'															
30x 60/40 4% GEL															
Disp w/ H20															
3rd Plug 350'															
50x 60/40 4% GEL															
Disp w/ H20															
4th Plug 60'															
20x 60/40 4% GEL															
Pumptrk Charge PTA															
Mileage 25															
Tax															
Discount															
Total Charge															
Signature: JAMES TOM GREEN; M.K.S															



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Iuka-Carmi Development

33-29S-15W Pratt, KS

PO Box 847
Pratt, KS 67124

Mary Howell Ryan1-33

Job Ticket: 44037

DST#: 1

ATTN: Dave Williams

Test Start: 2011.11.16 @ 08:45:15

GENERAL INFORMATION:

Formation: **Lansing "B"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:41:15
 Time Test Ended: 17:15:45

Test Type: Conventional Bottom Hole (Initial)
 Tester: Leal Cason
 Unit No: 45

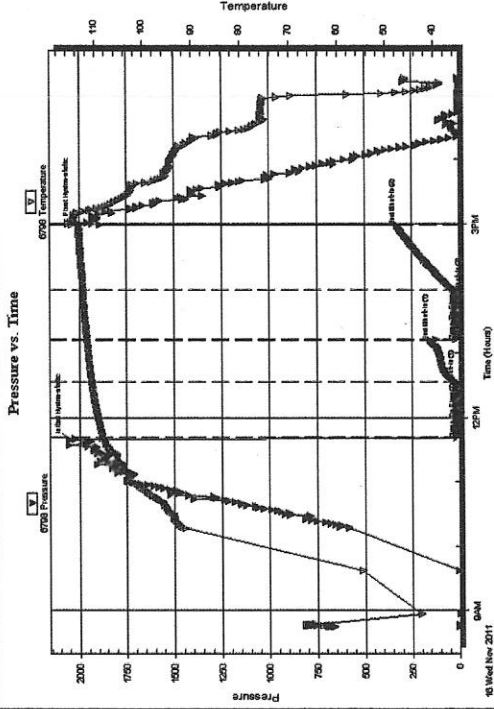
Interval: **4071.00 ft (KB) To 4093.00 ft (KB) (TVD)**
 Total Depth: 4093.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1984.00 ft (KB)
 1971.00 ft (CF)
 13.00 ft
 KB to GR/CF:

Serial #: 6798
 Press@RunDepth: 23.73 psig @ 4072.00 ft (KB)
 Start Date: 2011.11.16 End Date:
 Start Time: 08:45:16 End Time:

Capacity: 8000.00 psig
 Last Calib.: 2011.11.16
 Time On Btm: 2011.11.16 @ 11:39:15
 Time Off Btm: 2011.11.16 @ 15:00:30

TEST COMMENT: IF: Fair Blow, BOB in 7 minutes
 IS: 1 inch Blow back
 FF: Weak Blow, BOB in 30 minutes
 FSI: No Blow back



PRESSURE SUMMARY

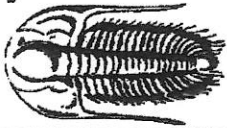
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2054.22	108.06	Initial Hydro-static
2	12.48	108.59	Open To Flow (1)
54	19.16	110.72	Shut-In(1)
93	152.34	111.71	End Shut-In(1)
94	15.32	111.78	Open To Flow(2)
139	23.73	112.57	Shut-In(2)
200	326.39	113.43	End Shut-In(2)
202	2012.52	115.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1178 GIP	0.00
25.00	SGCM 2%G 98%M	0.35

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Iuka-Carmi Development

33-29S-15W Pratt,KS

PO Box 847
Pratt, KS 67124

Mary Howell Ryan1-33

Job Ticket: 44037 DST#: 1

ATTN: Dave Williams

Test Start: 2011.11.16 @ 08:45:15

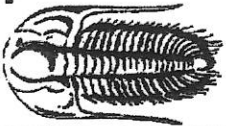
Tool Information

Drill Pipe: Length: 4052.00 ft Diameter: 3.80 inches Volume: 56.84 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: 0.00 inches Volume: 0.00 bbl Weight to Pull Loose: 45000.00 lb
 Total Volume: 56.84 bbl Tool Chased ft
 Drill Pipe Above KB: 8.00 ft String Weight: Initial 40000.00 lb
 Depth to Top Packer: 4071.00 ft Final 42000.00 lb
 Depth to Bottom Packer: ft
 Interval between Packers: 22.00 ft
 Tool Length: 49.00 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			4049.00	
Hydraulic tool	5.00			4054.00	
Jars	5.00			4059.00	
Safety Joint	2.00			4061.00	
Packer	5.00			4066.00	27.00 Bottom Of Top Packer
Packer	5.00			4071.00	
Stubb	1.00			4072.00	
Recorder	0.00	6798	Inside	4072.00	
Recorder	0.00	8367	Outside	4072.00	
Perforations	18.00			4090.00	
Bullnose	3.00			4093.00	22.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Iuka-Carmi Development

33-29S-15W Pratt, KS

PO Box 847
Pratt, KS 67124

Mary Howell Ryan1-33

Job Ticket: 44037

DST#: 1

ATTN: Dave Williams

Test Start: 2011.11.16 @ 08:45:15

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 57.00 sec/qt
Water Loss: 7.98 in³
Resistivity: ohm.m
Salinity: 6000.00 ppm
Filter Cake: 0.20 inches

Cushion Type:
Cushion Length:
Cushion Volume:
Gas Cushion Type:
Gas Cushion Pressure:

ft
bbl
psig

Oil API:
Water Salinity:
deg API
ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1178 GIP	0.000
25.00	SGCM2%G 98%M	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

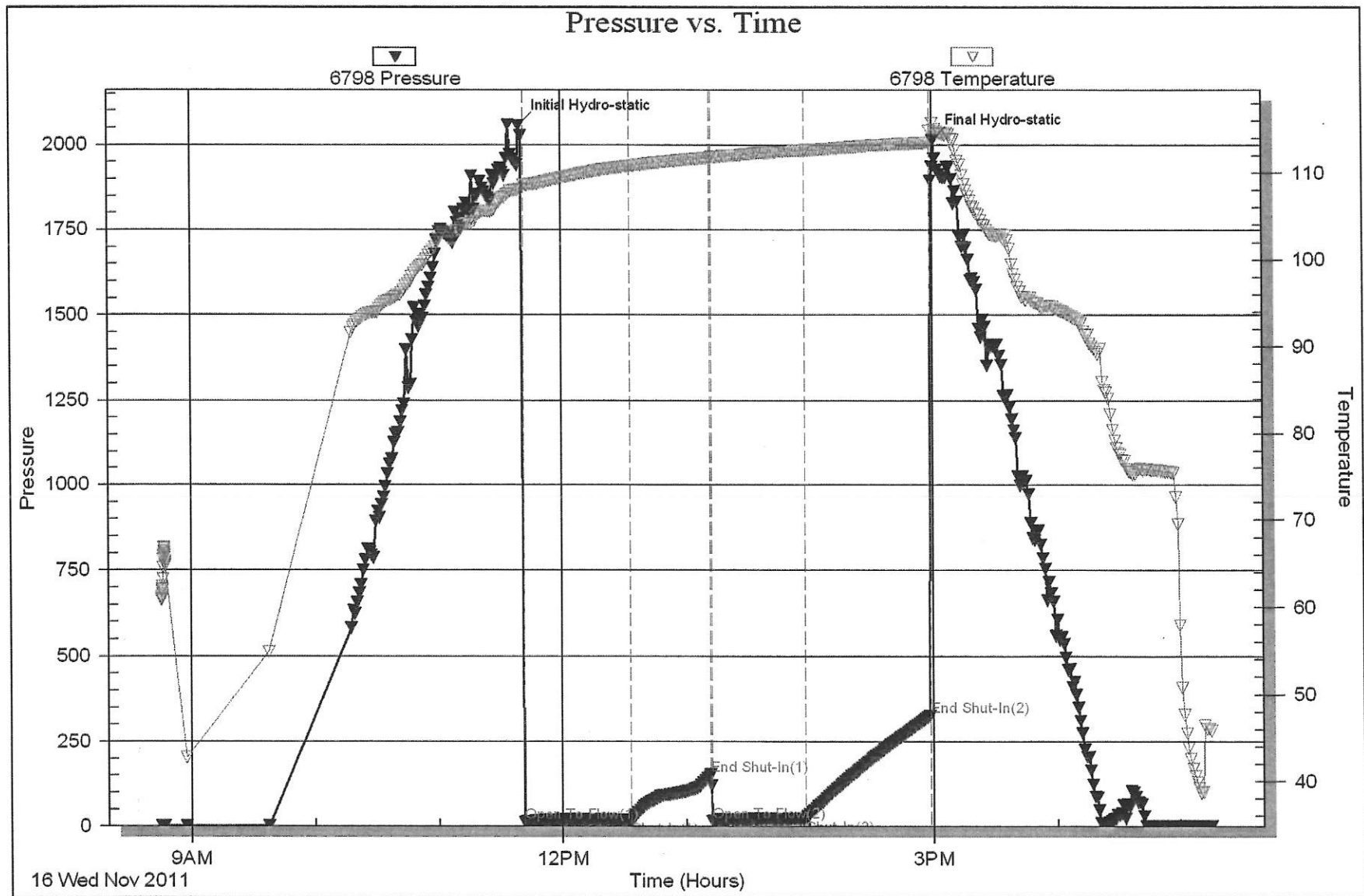
Num Gas Bombs: 0

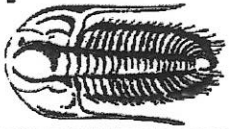
Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

luke-Carmi Development

33-29S-15W Pratt, KS

PO Box 847
Pratt, KS 67124

Mary Howell Ryan1-33

Job Ticket: 44038

DST#: 2

ATTN: Dave Williams

Test Start: 2011.11.17 @ 03:58:07

GENERAL INFORMATION:

Formation: Lansing "F"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:58:07
Time Test Ended: 13:49:22

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 45

Interval: 4149.00 ft (KB) To 4201.00 ft (KB) (TVD)
Total Depth: 4201.00 ft (KB) (TVD)
Hole Diameter: 7.88 inchesHole Condition: Good

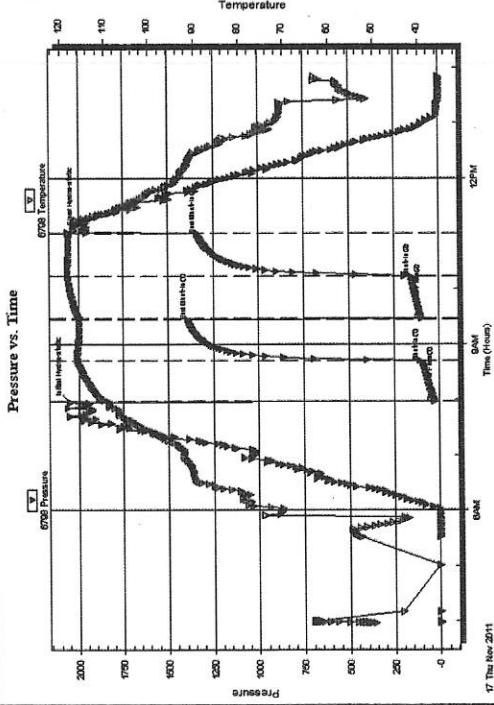
Reference Elevations: 1984.00 ft (KB)
1971.00 ft (CF)
13.00 ft
KB to GR/CF:

Serial #: 6798
Press@RunDepth: 156.07 psig @ 4150.00 ft (KB)
Start Date: 2011.11.17 End Date:
Start Time: 03:58:08 End Time:

2011.11.17
13:49:22

Capacity: 8000.00 psig
Last Calib.: 2011.11.17
Time On Btm 2011.11.17 @ 07:56:52
Time Off Btm 2011.11.17 @ 11:02:22

TEST COMMENT: IF: Fair Blow , 6 inches
IS: No Blow back
FF: Weak Blow , 4 inches
FS: No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2048.95	109.05	Initial Hydro-static
2	27.37	109.18	Open To Flow (1)
45	107.31	116.05	Shut-In(1)
91	1393.32	115.76	End Shut-In(1)
92	98.33	115.32	Open To Flow (2)
138	156.07	118.29	Shut-In(2)
184	1339.72	118.08	End Shut-In(2)
186	1982.06	116.91	Final Hydro-static

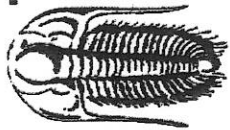
Recovery

Length (ft)	Description	Volume (bbl)
240.00	Water	3.37
20.00	MCW 45%M 55%W	0.28

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Iuka-Carmi Development

33-29S-15W Pratt,KS

PO Box 847
Pratt, KS 67124

Mary Howell Ryan1-33

Job Ticket: 44038

DST#:2

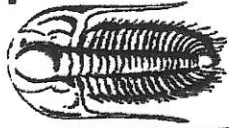
ATTN: Dave Williams

Test Start: 2011.11.17 @ 03:58:07

Tool Information

Drill Pipe: Length: 4147.00 ft Diameter: 3.80 inches Volume: 58.17 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: 0.00 inches Volume: 0.00 bbl Weight to Pull Loose: 45000.00 lb
 Drill Pipe Above KB: 25.00 ft Total Volume: 58.17 bbl Tool Chased ft
 Depth to Top Packer: 4149.00 ft String Weight: Initial 40000.00 lb Final 40000.00 lb
 Depth to Bottom Packer: ft
 Interval between Packers: 52.00 ft
 Tool Length: 79.00 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			4127.00	
Hydraulic tool	5.00			4132.00	
Jars	5.00			4137.00	
Safety Joint	2.00			4139.00	
Packer	5.00			4144.00	27.00 Bottom Of Top Packer
Packer	5.00			4149.00	
Stubb	1.00			4150.00	
Recorder	0.00	6798	Inside	4150.00	
Recorder	0.00	8367	Outside	4150.00	
Perforations	11.00			4161.00	
Change Over Sub	1.00			4162.00	
Drill Pipe	30.00			4192.00	
Change Over Sub	1.00			4193.00	
Perforations	5.00			4198.00	
Bullnose	3.00			4201.00	52.00 Bottom Packers & Anchor
Total Tool Length:				79.00	



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Iuka-Carmi Development

33-29S-15W Pratt, KS

PO Box 847
Pratt, KS 67124

Mary Howell Ryan1-33

Job Ticket: 44038 DST#: 2
Test Start: 2011.11.17 @ 03:58:07

ATTN: Dave Williams

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 7.97 in³
Resistivity: ohm.m
Salinity: 6000.00 ppm
Filter Cake: 0.20 inches

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

Oil API: deg API
Water Salinity: 110000 ppm

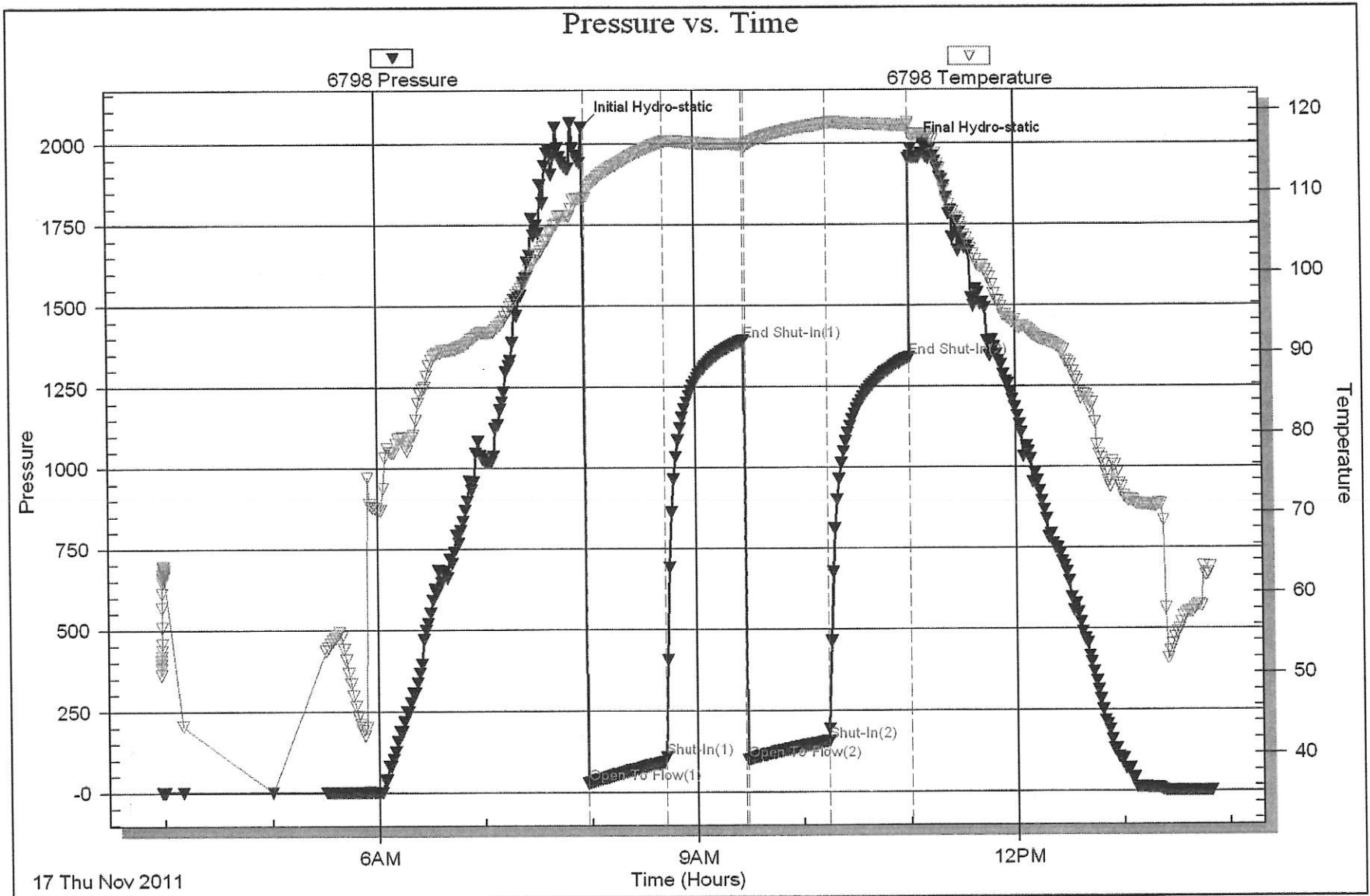
Recovery Information

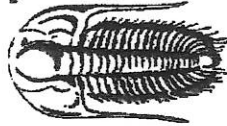
Recovery Table

Length ft	Description	Volume bbl
240.00	Water	3.367
20.00	MCW 45%M 55%W	0.281

Total Length: 260.00 ft Total Volume: 3.648 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: RW was .095 @ 55 degrees





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

luka-Carmi Development
 PO Box 847
 Pratt, KS 67124
 ATTN: Dave Williams

33-29S-15W Pratt, KS
Mary Howell Ryan1-33
 Job Ticket: 44039 DST#: 3
 Test Start: 2011.11.18 @ 18:20:59

GENERAL INFORMATION:

Formation: Cherokee Sand
 Deviated: No Whipstock:
 Time Tool Opened: 20:33:59
 Time Test Ended: 01:46:44

Interval: **4544.00 ft (KB) To 4578.00 ft (KB) (TVD)**
 Total Depth: 4578.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

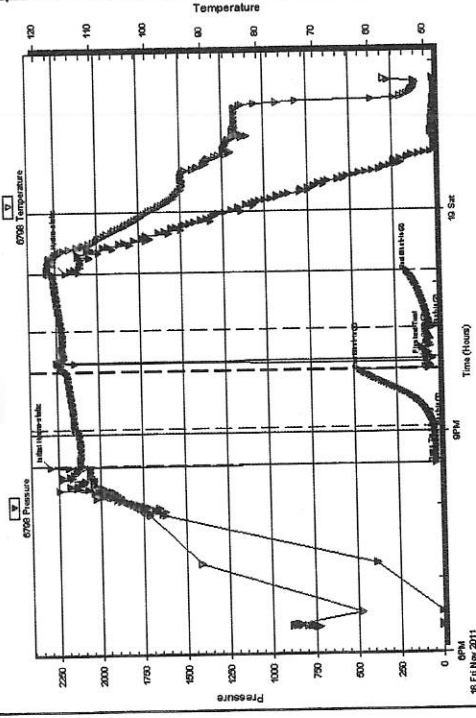
Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 45
 Reference Elevations: 1984.00 ft (KB)
 1971.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 6798 Inside
 Press@RunDepth: 35.64 psig @ 4545.00 ft (KB)
 Start Date: 2011.11.18 End Date:
 Start Time: 18:21:00 End Time:

Capacity: 8000.00 psig
 Last Calib.: 2011.11.19
 Time On Btm: 2011.11.18 @ 20:32:59
 Time Off Btm: 2011.11.18 @ 23:09:59

TEST COMMENT: IF: Weak Surface Blow
 IS: No Blow
 FF: Weak Surface Blow , Dead @ 2 minutes, Flushed Tool, No Blow
 FS: No Blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2295.15	112.01	Initial Hydro-static
1	27.92	112.73	Open To Flow (1)
31	33.20	113.61	Shut-In(1)
77	465.55	115.11	End Shut-In(1)
78	54.77	115.25	Open To Flow(2)
83	66.89	116.15	Flushed Tool
111	35.64	115.90	Shut-In(2)
157	177.88	117.38	End Shut-In(2)
157	2185.75	118.11	Final Hydro-static

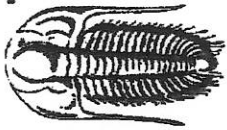
Recovery

Length (ft)	Description	Volume (bbl)
30.00	SGOM 2%G 98%M	0.42

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Iuka-Cairn Development

33-29S-15W Pratt,KS

PO Box 847
Pratt, KS 67124

Mary Howell Ryan1-33

Job Ticket: 44039

DST#: 3

ATTN: Dave Williams

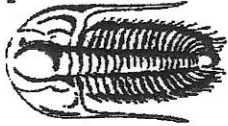
Test Start: 2011.11.18 @ 18:20:59

Tool Information

Drill Pipe: Length: 4523.00 ft Diameter: 3.80 inches Volume: 63.45 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: 0.00 inches Volume: 0.00 bbl Weight to Pull Loose: 45000.00 lb
 Drill Pipe Above KB: 6.00 ft Total Volume: 63.45 bbl Tool Chased 3.00 ft
 Depth to Top Packer: 4544.00 ft String Weight: Initial 42000.00 lb
 Depth to Bottom Packer: ft Final 42000.00 lb
 Interval between Packers: 34.00 ft
 Tool Length: 61.00 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			4522.00	
Hydraulic tool	5.00			4527.00	
Jars	5.00			4532.00	
Safety Joint	2.00			4534.00	
Packer	5.00			4539.00	27.00 Bottom Of Top Packer
Packer	5.00			4544.00	
Stub	1.00			4545.00	
Recorder	0.00	6798	Inside	4545.00	
Recorder	0.00	8367	Outside	4545.00	
Perforations	30.00			4575.00	
Bullnose	3.00			4578.00	34.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Iuka-Carrri Development

33-29S-15W Pratt, KS

PO Box 847
Pratt, KS 67124

Mary Howell Ryan1-33

Job Ticket: 44039

DST#: 3

ATTN: Dave Williams

Test Start: 2011.11.18 @ 18:20:59

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 56.00 sec/qt
Water Loss: 23.94 in³
Resistivity: ohm.m
Salinity: 14000.00 ppm
Filter Cake: 0.20 inches

Cushion Type: Oil API: deg API
Cushion Length: ft Water Salinity: ppm
Cushion Volume: bbl
Gas Cushion Type: psig
Gas Cushion Pressure:

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SGCM 2%G 98%M	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

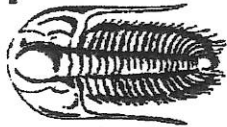
Num Gas Bombs: 0

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #:



DRILL STEM TEST REPORT

Iuka-Carmi Development

33-29S-15W Pratt, KS

PO Box 847

Mary Howell Ryan1-33

Pratt, KS 67124

Job Ticket: 44040

DST#: 4

ATTN: Dave Williams

Test Start: 2011.11.20 @ 23:30:19

GENERAL INFORMATION:

Formation: Cherokee Sand
 Deviated: No Whipstock
 Time Tool Opened: 02:18:19
 Time Test Ended: 07:48:23

Test Type: Conventional Straddle (Reset)
 Tester: Leal Cason
 Unit No: 45

Interval: 4532.00 ft (KB) To 4586.00 ft (KB) (TVD)
 Total Depth: 4880.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

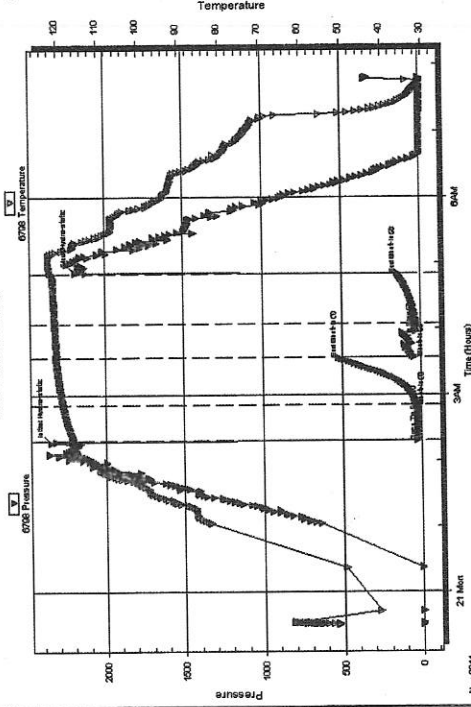
Reference Elevations: 1984.00 ft (KB)
 1971.00 ft (CF)
 13.00 ft
 KB to GR/CF:

Serial #: 6798
 Press@RunDepth: 30.89 psig @ 4533.00 ft (KB)
 Start Date: 2011.11.20
 Start Time: 23:30:20

Capacity: 8000.00 psig
 Last Callb.: 2011.11.21
 Time On Btm: 2011.11.21 @ 02:16:19
 Time Off Btm: 2011.11.21 @ 04:51:34

TEST COMMENT: IF: Weak Surface Blow
 ISI: No Blow
 FF: Weak Surface Blow
 FSI: No Blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2347.15	116.56	Initial Hydro-static
2	24.76	116.42	Open To Flow (1)
34	31.44	118.84	Shut-In(1)
78	523.91	120.52	End Shut-In(1)
78	43.98	120.31	Open To Flow (2)
109	30.89	120.78	Shut-In(2)
155	149.29	121.33	End Shut-In(2)
156	2187.66	122.00	Final Hydro-static

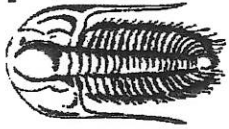
Recovery

Length (ft)	Description	Volume (bb)
25.00	SGCM 1%G 99%M	0.35

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Iuka-Carroll Development

33-29S-15W Pratt, KS

PO Box 847

Mary Howell Ryan1-33

Pratt, KS 67124

Job Ticket: 44040

DST#: 4

ATTN: Dave Williams

Test Start: 2011.11.20 @ 23:30:19

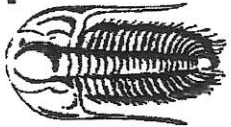
Tool Information

Drill Pipe: Length: 4525.00 ft Diameter: 3.80 inches Volume: 63.47 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: 0.00 inches Volume: 0.00 bbl Weight to Pull Loose: 52000.00 lb
 Drill Pipe Above KB: 19.00 ft Total Volume: 63.47 bbl Tool Chased ft
 Depth to Top Packer: 4532.00 ft String Weight: Initial 50000.00 lb
 Depth to Bottom Packer: 4586.00 ft Final 50000.00 lb
 Interval between Packers: 54.00 ft
 Tool Length: 374.00 ft
 Number of Packers: 3 Diameter: 6.75 inches
 Tool Comments:

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

Shut In Tool	5.00			4511.00	
Hydraulic tool	5.00			4516.00	
Jars	5.00			4521.00	
Safety Joint	2.00			4523.00	
Packer	5.00			4528.00	26.00 Bottom Of Top Packer
Packer	4.00			4532.00	
Stubb	1.00			4533.00	
Recorder	0.00	6798	Inside	4533.00	
Recorder	0.00	8367	Outside	4533.00	
Perforations	5.00			4538.00	
Change Over Sub	1.00			4539.00	
Drill Pipe	32.00			4571.00	
Change Over Sub	1.00			4572.00	
Perforations	13.00			4585.00	
Blank Off Sub	1.00			4586.00	54.00 Tool Interval
Packer	3.00			4589.00	
Perforations	2.00			4591.00	
Change Over Sub	1.00			4592.00	
Drill Pipe	284.00			4876.00	
Change Over Sub	1.00			4877.00	
Recorder	0.00	8649	Below	4877.00	
Bullnose	3.00			4880.00	294.00 Bottom Packers & Anchor

Total Tool Length: 374.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Iuka-Carmi Development

33-29S-15W Pratt, KS

PO Box 847
Pratt, KS 67124

Mary Howell Ryan1-33

Job Ticket: 44040

DST#: 4

ATTN: Dave Williams

Test Start: 2011.11.20 @ 23:30:19

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 37.00 sec/qt
Water Loss: 8.79 in³
Resistivity: ohm.m
Salinity: 9000.00 ppm
Filter Cake: 0.20 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type: psig
Gas Cushion Pressure:
Oil API:
Water Salinity:
deg API
ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	SGCM 1%G 99%M	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

