



KANSAS CORPORATION COMMISSION 1063753  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 3956  
Name: Brungardt Oil and Leasing Inc.  
Address 1: 529 E 14TH  
Address 2: PO BOX 871  
City: RUSSELL State: KS Zip: 67665 + 1731  
Contact Person: Gary L. Brungardt  
Phone: ( 785 ) 483-4975  
CONTRACTOR: License # 5184  
Name: Shields Oil Producers Inc  
Wellsite Geologist: Brad Hutchinson  
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 #: \_\_\_\_\_  
8/26/2011    9/1/2011    9/1/2011  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date    Recompletion Date

API No. 15 - 15-141-20430-00-00  
Spot Description: \_\_\_\_\_  
SW SE NE NE Sec. 23 Twp. 10 S. R. 15  East  West  
1275 Feet from  North /  South Line of Section  
515 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Osborne  
Lease Name: Ruggles A Well #: 1  
Field Name: \_\_\_\_\_  
Producing Formation: Arbuckle  
Elevation: Ground: 1889 Kelly Bushing: 1894  
Total Depth: 3700 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 217 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: 6000 ppm Fluid volume: 250 bbls  
Dewatering method used: Evaporated  
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: Deanna Garrison Date: 09/29/2011



1063753

Operator Name: Brungardt Oil and Leasing Inc. Lease Name: Ruggles A Well #: 1  
 Sec. 23 Twp. 10 S. R. 15  East  West County: Osborne

**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 <i>(Attach Additional Sheets)</i>  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 type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum See Geologists Report
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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	8.625	8.625	24	217	Common	150	3%cc and 2% gel

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 checked="" type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	0-3589	60/40 poz	245	4% gel 1/4# flocele

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: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 5287

Date: 9/1/11	Sec. 23	Twp. 10	Range 18	County Osborn	State KS	On Location	Finish 8:30 AM
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Lease Range A	Well No. 1	Location Paradise, SW, 1 <sup>st</sup> N, W 1/4
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Contractor Sheldahl Drilling	Owner
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Type Job RTA	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
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Hole Size 2 7/8"	T.D. 3700'	Charge To Rungerdt Oil
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Csg.	Depth	Street
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Tbg. Size	Depth	City State
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Tool	Depth	City State
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Cement Left in Csg.	Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.
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Meas Line	Displace	Cement Amount Ordered 245 or 60/100 1 1/2 bags
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**EQUIPMENT**

Pumptrk 9	No.	Cementer	Helper	Common
Bulktrk 8	No.	Driver	Driver	Poz. Mix
Bulktrk 10	No.	Driver	Driver	Gel.

**JOB SERVICES & REMARKS**

Remarks:	Calcium
Rat Hole 30 ex	Hulls
Mouse Hole 20 ex	Salt
Centralizers	Flowseal
Baskets	Koi-Seal
D/V or Port Collar	Mud CLR 48
25 ex - 3559'	CFL-117 or CD110 CAF 38
25 ex - 1100'	Sand
100 ex - 650'	Handling
40 ex - 875'	Mileage
10 ex - 40'	

**FLOAT EQUIPMENT**

Guide Shoe	9 5/8"
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	Drill Hole Plug
Latch Down	

Pumptrk Charge	Tax
Mileage	Discount

Signature <i>[Signature]</i>	Total Charge
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# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 5278

Date	8/26/11	Sec.	23	Twp.	10	Range	15	County	Ottawa	State	KS	On Location	Finish	1:00 AM	
Lease	Ruggoli A	Well No.	1	Location	Paradise, W to 220 Dr. 1/2 N, W into										
Contractor	Shield Drilling										Owner				
Type Job	Surface										To Quality Oilwell Cementing, Inc.				
Hole Size	12 1/4"										You are hereby requested to rent cementing equipment and furnish				
Csg.	7 5/8"										cementer and helper to assist owner or contractor to do work as listed.				
Tbg. Size											Charge To: Brungardt Oil + Leasing, Inc.				
Tool											Street				
Cement Left in Csg.	15'										City				
Meas Line											State				
	Shoe Joint										The above was done to satisfaction and supervision of owner agent or contractor.				
	Displace 13 Bbls										Cement Amount Ordered 150 x Com 3/4" 2 1/2 gal				

### EQUIPMENT

Pumptrk	9	No.	Cementer	D	Helper	Paul	Common
Bulktrk	3	No.	Driver	Matt	Driver	Matt	Poz. Mix
Bulktrk	2	No.	Driver	Brian	Driver	Brian	Gel

### JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal
Baskets	Kol Seal
D/V or Port Collar	Mud CLR 48
Est. Circ	CFL-117 or CD110 CAF 38
Mix 150 x	Sand
Displace	Handling
Cement Circulation	Mileage

### FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Head + Manifold	
Wood Plug	
Pumptrk Charge	
Mileage	

Signature: <i>[Handwritten Signature]</i>	Tax	
	Discount:	
	Total Charge:	

# GEOLOGIST'S REPORT

## DRILLING TIME AND SAMPLE LOG

COMPANY <u>BRUNHARDT OIL &amp; LEASING, INC.</u> LEASE <u>Ruggles "A" #1</u> FIELD <u>Ruggles</u> LOCATION <u>SW SE NE NE</u> SEC <u>23</u> TWP <u>10S</u> RGE <u>15W</u> COUNTY <u>Osborne</u> STATE <u>KANSAS</u>	ELEVATIONS KB <u>1894'</u> DF _____ GL <u>1889'</u> Measurements Are All From <u>Kelly Bushing</u>
CONTRACTOR <u>SHIELDS OIL PROXERS, INC.</u> SPUD <u>8-25-11</u> COMP <u>8-31-11</u> RTD <u>3700 (-1806) LTD</u> MUD UP <u>2400'</u> TYPE MUD <u>CHEMICAL</u>	CASING SURFACE <u>8 3/8" @ 217'</u> PRODUCTION <u>None</u> ELECTRICAL SURVEYS <u>None</u>
SAMPLES SAVED FROM <u>2650'</u> TO <u>RTD</u> DRILLING TIME KEPT FROM <u>2600'</u> TO <u>RTD</u> SAMPLES EXAMINED FROM <u>2650'</u> TO <u>RTD</u> GEOLOGICAL SUPERVISION FROM <u>2650'</u> TO <u>RTD</u> GEOLOGIST ON WELL <u>BRAD J. HUTCHISON</u>	

FORMATION TOPS	LOG.	SAMPLES	
ANHYDRITE		1075 - +819	
TOPEKA		2784 - 890	
HEPNER		3028 - 1124	
TORRITO		3050 - 1156	
LEASING		3079 - 1185	
Base Kansas Lm		3349 - 1475	
Coal. Shale		3437 - 1543	
Coal. Sand		3447 - 1553	
Vicks		3514 - 1620	
ARROYO		3610 - 1716	

DAILY PROGRESS: 7:00 A.M.

8-25-11	MIRU	Bit 1	2
8-26-11	220'		
8-27-11	1112'	14 HRS.	
8-28-11	2231'	26 "	
8-29-11	3020'	58 "	
8-30-11	3190'		18 1/2
8-31-11	3420'		25 1/2

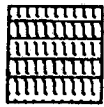
REMARKS It was recommended based on the two (2) negative drillstem tests, and there being no zones worthy of any further testing, that the Ruggles "A" #1 be plugged and abandoned at a total rotary depth of 3700 (-1806).

Survey: Depth: Deviation  
 270' 2 1/8"  
 3120' 1 1/8"  
 STRAP: '98 500ET

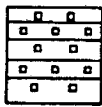
Respectfully Submitted,  
 Brad J. Hutchison

### LEGEND

	Anhydrite		Salt		Sandstone		Shale		Carb sh		Limestone		Chert		Dolomite
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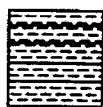
Anhydrite



Salt



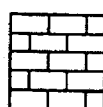
Sandstone



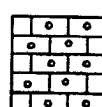
Shale



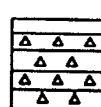
Carb sh



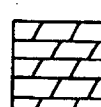
Limestone



Ool.Lime

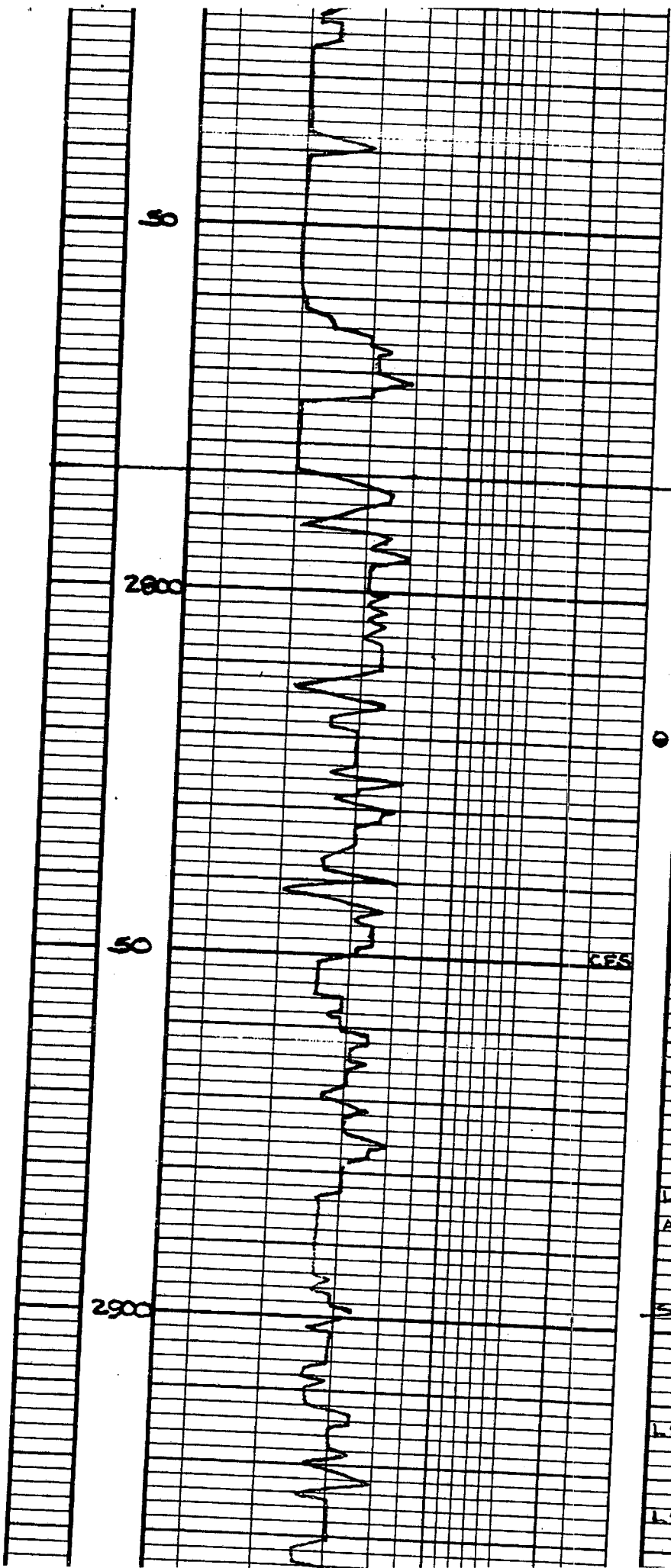


Chert



Dolomite

DEPTH	DRILLING TIME (Logarithmic Scale)										SAMPLE DESCRIPTIONS	REMARKS
	.5	1	2	3	4	5	10	15	20	30		
110												Anhy 1075 (+819)
2700												
8												



L4 CRN-WHT FINE-CHALKY FOSS NS

L5 DIRTY GRY CHALKY

SH BLK

L5 BUFF-CRM VENTL - HIGHLY CHALKY NO VIS. STD FR. DK BRN STD-SK. SED VET ODR

L5 LT GRY BUFF CHALKY W/ PALE GRN (mealy) SH.

L9 WHT HIGHLY CHALKY FOSS

DITTO AA W/ stringers BRN RED SH.

L5 4 SH AA

ABUND WHT CHALK

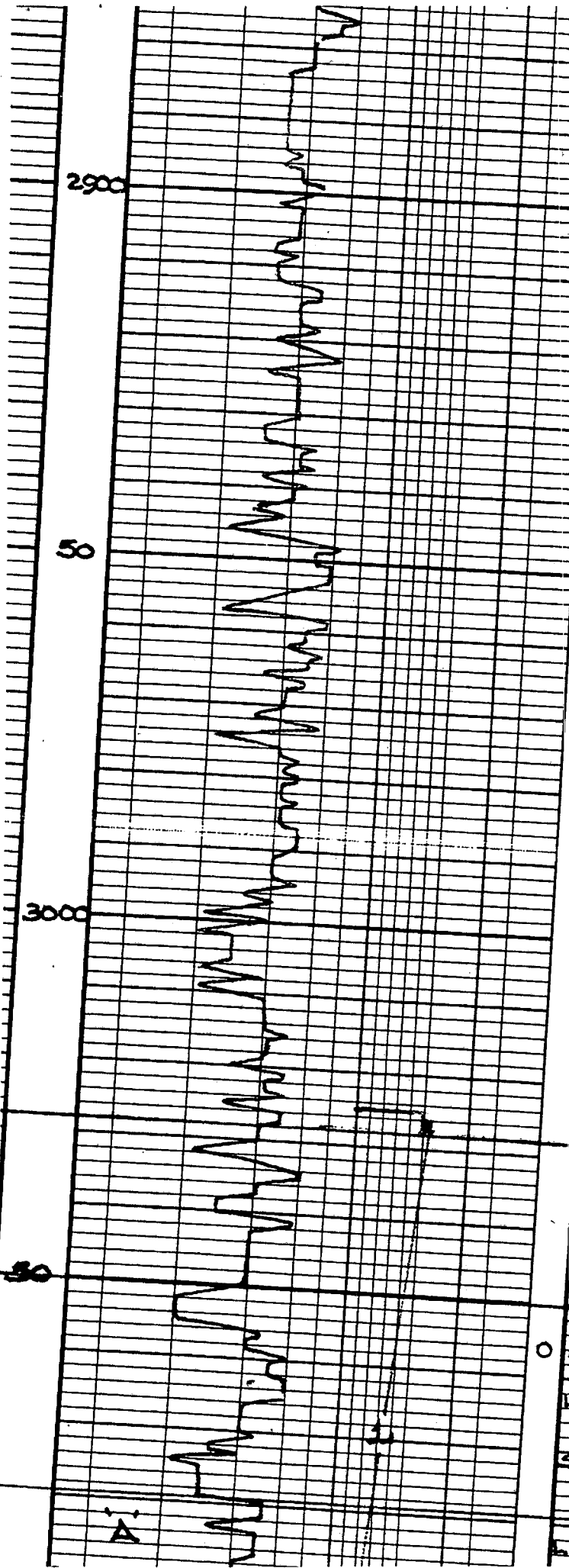
SH BLK COBB.

L5 CRN-BUFF DSE AY

L5 AA TR edge can

TOPKA 278

NID. 52 WT. 5



L5 of SH AA  
 ABUND WHT CHALKY

Vis. 52 Wt. 9.0

SH BLK CARB.

L5 CRM-BUFF DSE  
 AY

L5 AA TR edge str

WHT CHALKY L5  
 GRAY MEANLY SH

SH BLK CARB.

L5 WHT-CRM HIGHLY  
 CHALKY-MILKY

L5 BUFF-LT GRAY DSE

L5 CRM-WHT HIGHLY  
 CHALKY

AA

L5 WHT-CRM DSE TR SPT  
 LT BRN STR  
 HFO or color

L5 WHT CHALKY

SH BLK CARB.

HEBNER 3028 (1134)

SH RUSTY BRN-PALE GRN

PROP TO 3000 (1156)

L5 WHT-CRM VEXL DSE  
 NO VIS OF SCLD FB BRN STR  
 1ST SPT (WHEN BROKEN)  
 FT DSE

L5 GRAY DSE

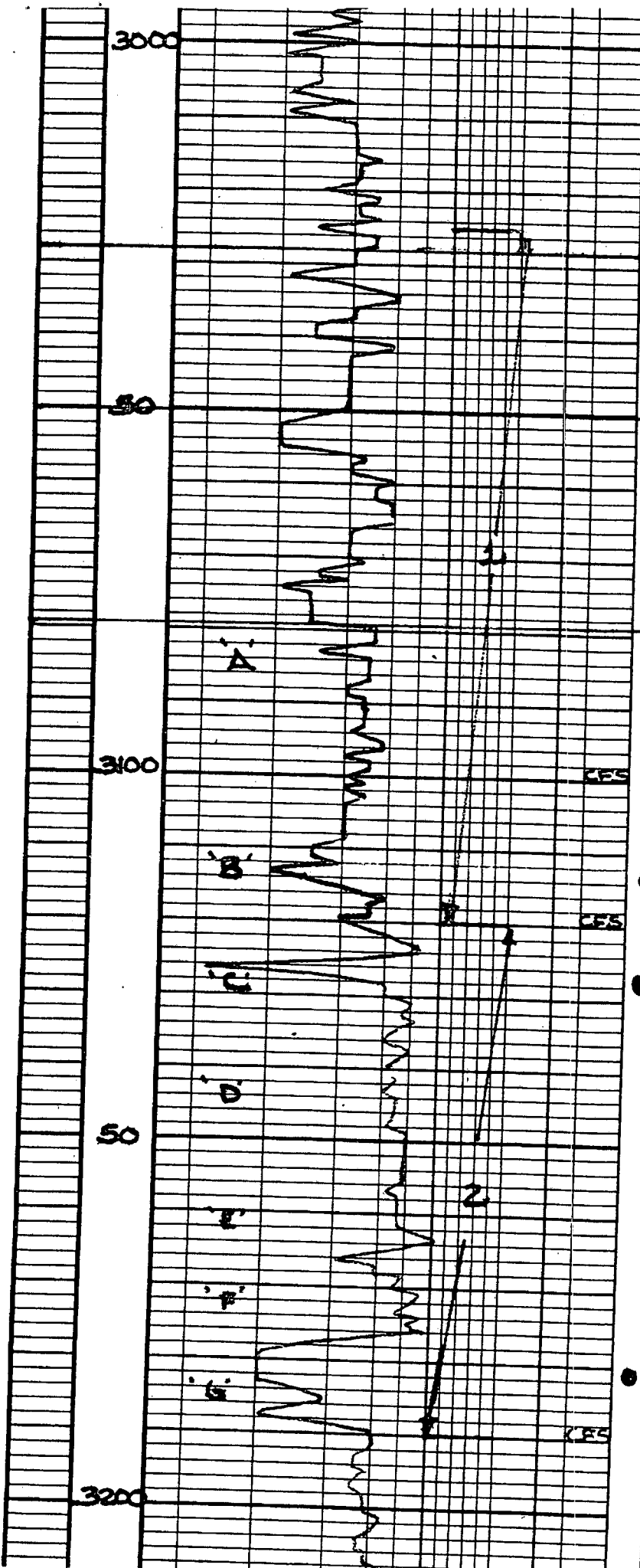
SH RUSTY BRN-GRN

Vis. 58 Wt. 9.4

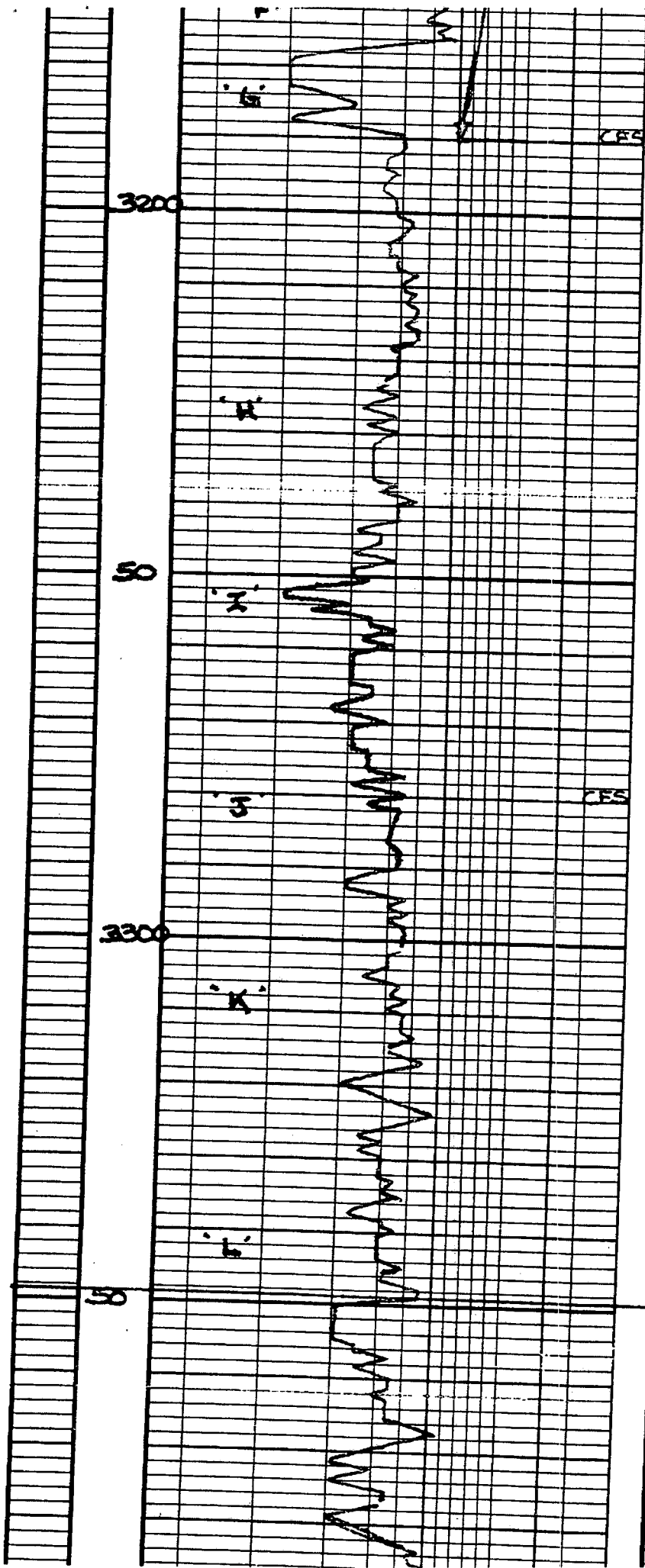
L5 GRM VEXL

LANSING 3019 (1185)

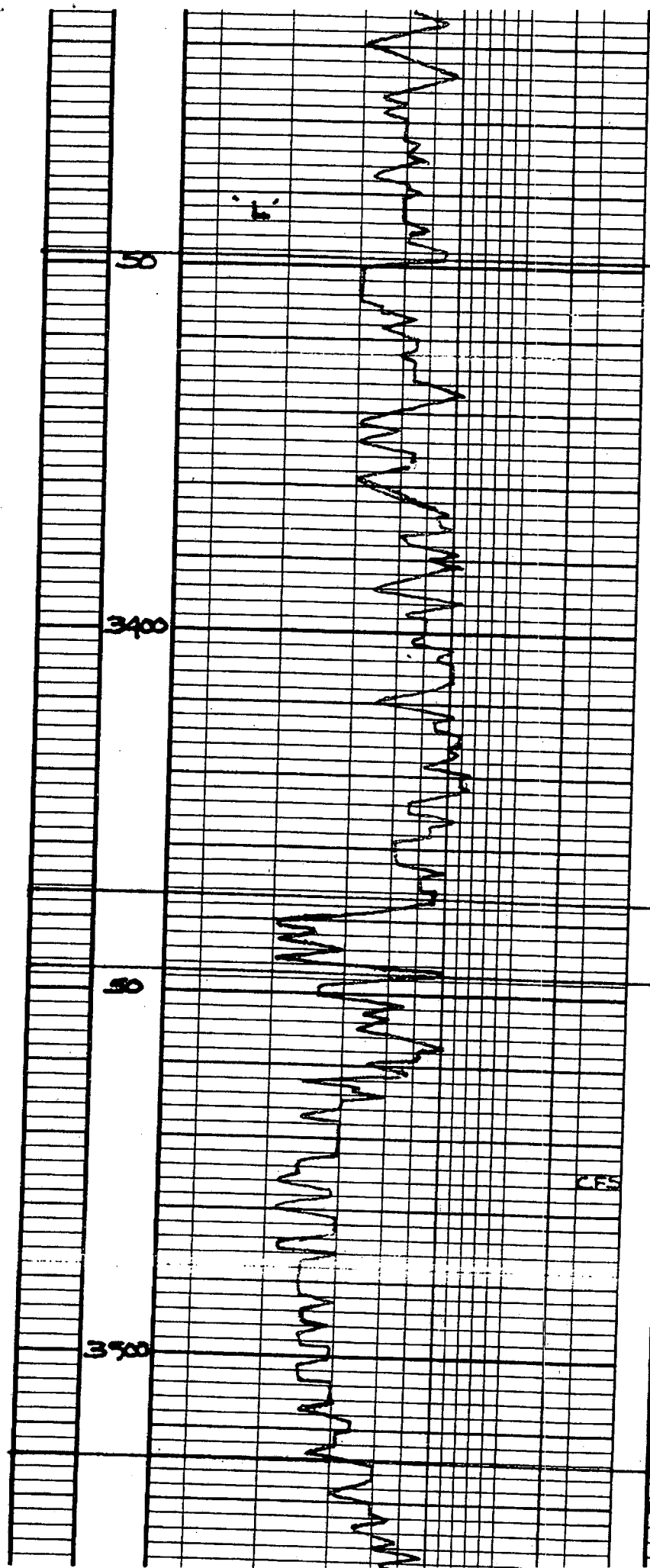




AA	
L5 WHT-CRM DSE +P spt LT BRN STN nfo or odor	
L5 WHT chalky	
SH BLK CARB	HEBNER 302
SH RUSTY BRN-PALE GRN	
	KOROQ to 308
L5 WHT-CRM VFXL DSE no vis of scld FR BRN STN SAT / SFO (when broken) FT odor	
L5 GRY DSE	
SH RUSTY BRN-GRN	NIA. 58 WT 9
	LANSING 30
L5 CRM VFXL - CHALKY no vis of TR odor spt LT BRN nfo v bl odor	
SH PALE GRN, MAR GRY (mealy)	DST-1 3025-3 30.30.45. IF 2" FF 1" REL. 30' MUO/ OIL
L5 WHT FNXL - DSE ool - ool +P scld FR ool of TR FR scld BRN STN - SAT SH SED v. FT odor Abund milky WHT ool A	SEP (403-400 FP (56-69) X7 MDH (1574-1519
L5 BUFF-CRM FNXL ool - ool FR scld ool of FR spt LT STN, +CEO v. FT odor	
L5 OFF WHT-LT GRY FNXL - DSE	
ML GRY - PALE GRN (MEALY) SH	CHART PR
	DST-2 3120-31 30.30.60. IF 5 3/4" FF 16 1/4" REL. 80' LIP 2' SOLIUM 50/AD 25%OM 140' MW/OIL 5
L5 BUFF-OFF WHT DSE POSS TR MILKY WHT ool A	SEP (358-388 FP (43-74) X76 MDH (11678-1566
L5 CRM-GRYISH WHT FNXL ool - ool, FR-Gel scld ool of TR FR scld golden BRN - STN-SAT Abund barren Abund WHT chalky FR SED FR odor	
L5 LT GRY DSE	



	MS 140' MW/OIL SIP (378-7) FP (43-74) WCH (1678-15)
L5 GRN-GRYISH WHT FAXL OR GRN-GRY, FR-GRI scd or TR FR scd golden PEN STN-SAT ABUND barren abund WHT chalk FR scd FR odor	
L5 LT GRY DSE	
L5 GRN-WHT HIGHLY CHALKY luc gry sh	CHART PROF
SH BLK CARB W/ ABUND RUSTY-GRY sh	
L5 LT GRY DSE AY SI FOSS TR (dead) edge str	
SH BLK CARB W/ WHT CHALKY L5	
L5 WHT-GRN FAXL-CHALKY TR V. poorly dev pp TR spl LI str NEO or odor abund WHT CHALK	
SH GRY	
L5 WHT-GRN HIGHLY CHALKY FOSS tr spl edge str (1-2 pc) NEO or odor	
SH BLK CARB.	
ABUND WHT CHALKY L5	
L5 LT GRY DSE FOSS	
SH GRY (MEALY)	
L5 LT GRY-BUFF DSE	
L5 AA	
SH RUSTY BRN, GRY PALE GRN (MEALY)	BASE KC. 3
L5 BUFF FAXL DSE	
SH GRY RUSTY BRN MARBON	
AA	



SH gry (Mealy)

LS LT GRY-BUFF DSE

LS AA

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SH RUSTY BRN, GRY  
PALE GRN (MEALY)

LS BUFF FINL DSE

SH GRY RUSTY BRN  
MARBON,

AA

LS WHT-BUFF DSE

LS AND SH AA

AA

SAME AA

---

SH VC TR VC A

---

LS WHT VFBGRN CONGLO  
FRI DO VIS of Compact  
no

A VC ALL IN MATRIX  
VC SH

CFS

SAME AA

ABUND VC A w/ INC  
BONEY SH A TR VC SH

A 2 SH AA

A 2 SH AA

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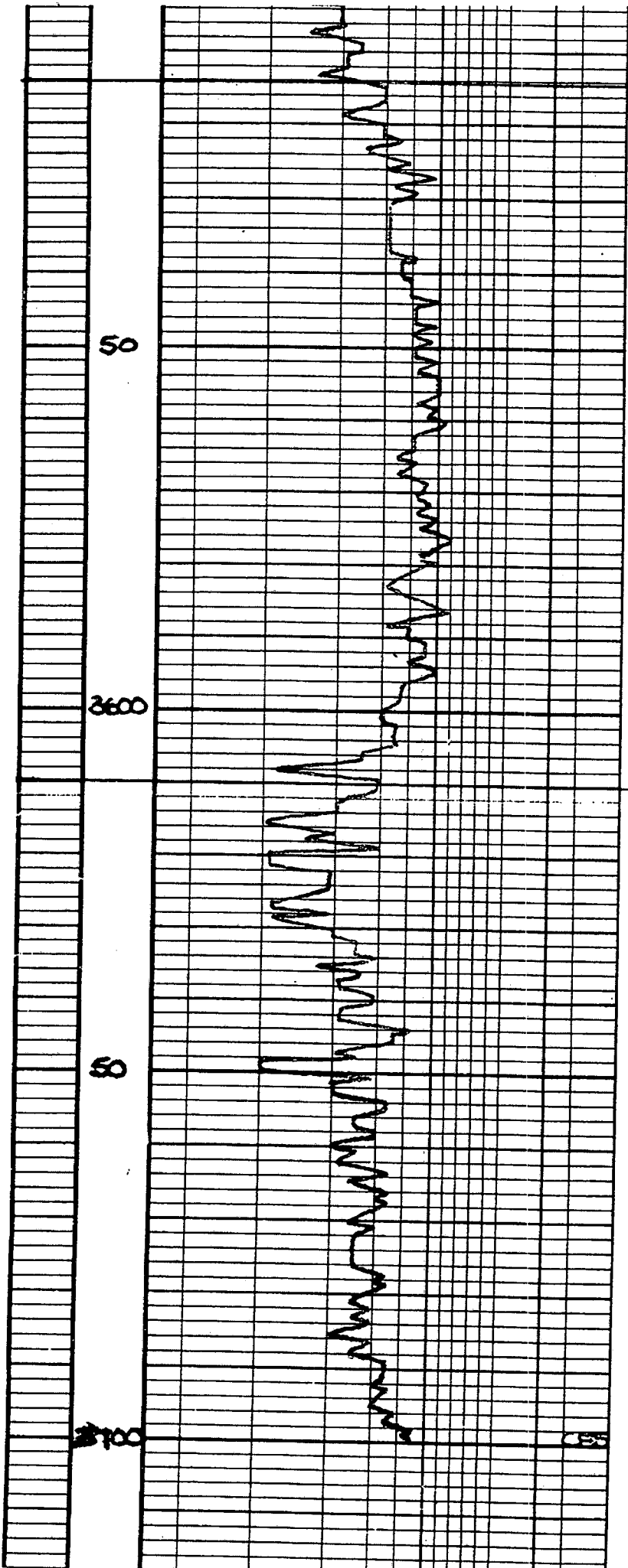
LS BUFF-CRM DSE  
MASSIVE

BASE KC

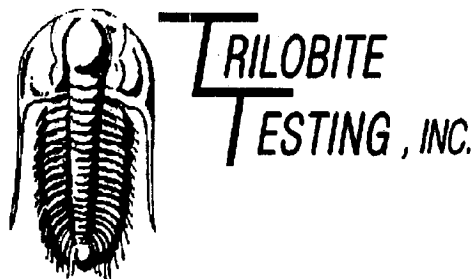
Col. SH 3

Col. SO 34

VIOLA 354



A 0 SH AA	
5 BUFF-LRM DSE MASSIVE	VIOLA 351
5 BUFF-LT GRN VENTL DSE DOMINANT	
DOLO BUFF-LT GRN FINE VERY DSE w/ S AA	
AA	
SH MAR-Pale GRN LAM Waxy	
SH BLU GRN/W ABUND WHT CHALKY LS	VIOLA 510 W
SH AA	
AA	
SH AA	
DOLO LT BRN-BUFF VENTL DSE	Arg. 3610
DOLO LT BRN DSE AY TR MD XH DOLO SPT gel vug p -NS-	
DOLO LT BRN-BUFF FN-MIXL FR SCLD INTVL / ABUND WHT CHALK NS	
DITTO DOLO AA NS	
DOLO LT BRN-INC IN PK MD-LS XH gel INT XH / Rhombic cleav. NS	
DOLO AA NS	
DOLO AA NS	



## DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil & Leasing Inc**

PO Box 871  
Russell KS 67665+1731

ATTN: Gary Brungardt

**23-10-15-Osborne,KS**

**Ruggels A-1**

Start Date: 2011.08.29 @ 15:55:11

End Date: 2011.08.29 @ 21:46:11

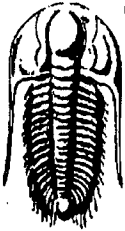
Job Ticket #: 039746          DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.09.27 @ 14:14:59



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc  
 PO Box 871  
 Russell KS 67665+1731  
 ATTN: Gary Brungardt

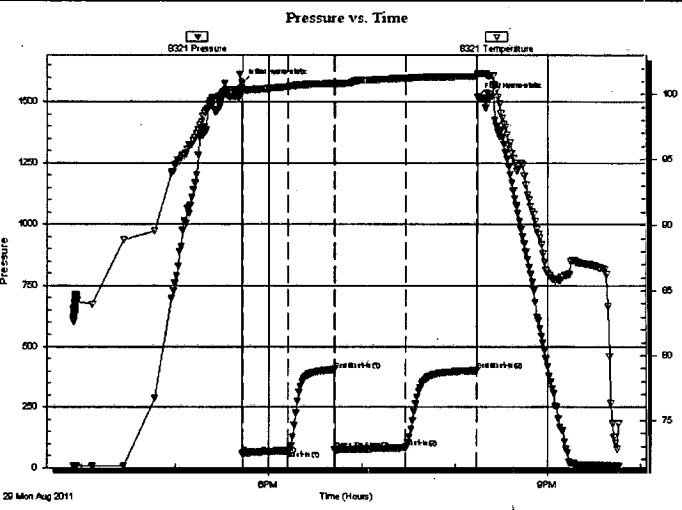
**Ruggels A-1**  
**23-10-15-Osborne,KS**  
 Job Ticket: 039746      **DST#: 1**  
 Test Start: 2011.08.29 @ 15:55:11

## GENERAL INFORMATION:

Formation: **Toronto-Lansing-C**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 17:43:11  
 Time Test Ended: 21:46:11  
 Interval: **3025.00 ft (KB) To 3120.00 ft (KB) (TVD)**  
 Total Depth: 3120.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jeff Brown  
 Unit No: 44  
 Reference Elevations: 1899.00 ft (KB)  
 1894.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8321      Inside**  
 Press@RunDepth: 82.41 psig @ 3097.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2011.08.29      End Date: 2011.08.29      Last Calib.: 2011.08.29  
 Start Time: 15:55:12      End Time: 21:46:11      Time On Btm: 2011.08.29 @ 17:42:41  
 Time Off Btm: 2011.08.29 @ 20:14:41

**TEST COMMENT:** IFP-Weak blow built to 2 in  
 IS-Dead no blow back  
 FFP-Weak blow built to 1 in  
 FSI-Dead no blow back



## PRESSURE SUMMARY

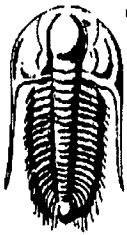
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1574.04	100.49	Initial Hydro-static
1	56.50	100.19	Open To Flow (1)
30	69.68	100.57	Shut-In(1)
60	403.63	100.82	End Shut-In(1)
60	73.66	100.73	Open To Flow (2)
106	82.41	101.22	Shut-In(2)
151	400.54	101.37	End Shut-In(2)
152	1519.90	101.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud with a scum of oil	0.21

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brungardt Oil & Leasing Inc

**Ruggels A-1**

PO Box 871  
Russell KS 67665+1731

**23-10-15-Osborne,KS**

Job Ticket: 039746 **DST#: 1**

ATTN: Gary Brungardt

Test Start: 2011.08.29 @ 15:55:11

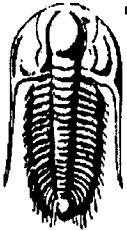
### Tool Information

Drill Pipe:	Length: 2569.00 ft	Diameter: 3.80 inches	Volume: 36.04 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 468.00 ft	Diameter: 2.70 inches	Volume: 3.31 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: 36000.00 lb
			<b>Total Volume: 39.35 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3025.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	95.00 ft			
Tool Length:	115.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3006.00	
Shut In Tool	5.00			3011.00	
Hydraulic tool	5.00			3016.00	
Packer	4.00			3020.00	20.00 Bottom Of Top Packer
Packer	5.00			3025.00	
Stubb	1.00			3026.00	
Perforations	8.00			3034.00	
Change Over Sub	1.00			3035.00	
Drill Pipe	61.00			3096.00	
Change Over Sub	1.00			3097.00	
Recorder	0.00	8321	Inside	3097.00	
Recorder	0.00	8737	Outside	3097.00	
Perforations	20.00			3117.00	
Bullnose	3.00			3120.00	95.00 Bottom Packers & Anchor

**Total Tool Length: 115.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Brungardt Oil & Leasing Inc

**Ruggels A-1**

PO Box 871  
Russell KS 67665+1731

**23-10-15-Osborne,KS**

Job Ticket: 039746      **DST#: 1**

ATTN: Gary Brungardt

Test Start: 2011.08.29 @ 15:55:11

**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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4600.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud with a scum of oil	0.212

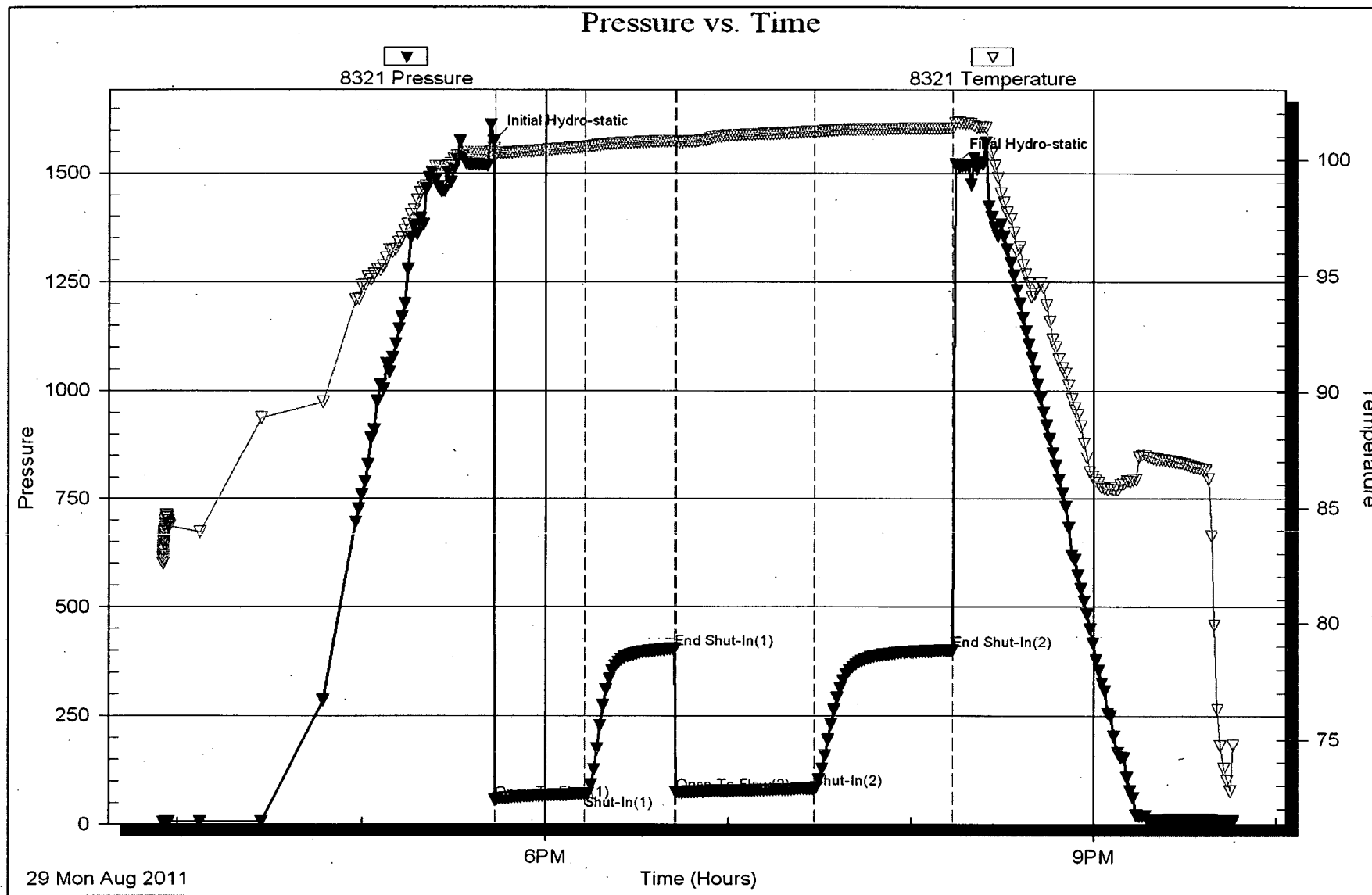
Total Length: 30.00 ft      Total Volume: 0.212 bbl

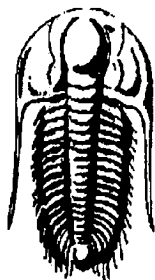
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil & Leasing Inc**

PO Box 871  
Russell KS 67665+1731

ATTN: Gary Brungardt

**23-10-15-Osborne,KS**

**Ruggels A-1**

Start Date: 2011.08.30 @ 06:49:25

End Date: 2011.08.30 @ 13:33:55

Job Ticket #: 039747      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.09.27 @ 14:15:43

Brungardt Oil & Leasing Inc

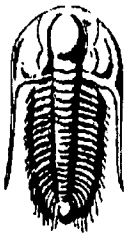
Ruggels A-1

23-10-15-Osborne,KS

DST # 2

LKC D-G

2011.08.30



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

**Ruggels A-1**

PO Box 871  
Russell KS 67665+1731

**23-10-15-Osborne,KS**

Job Ticket: 039747

**DST#: 2**

ATTN: Gary Brungardt

Test Start: 2011.08.30 @ 06:49:25

### GENERAL INFORMATION:

Formation: **LKC D-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:52:55

Time Test Ended: 13:33:55

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: **3120.00 ft (KB) To 3190.00 ft (KB) (TVD)**

Reference Elevations: 1899.00 ft (KB)

Total Depth: 3190.00 ft (KB) (TVD)

1894.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

### Serial #: 8321

Inside

Press@RunDepth: 118.52 psig @ 3161.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.30

End Date: 2011.08.30

Last Calib.: 2011.08.30

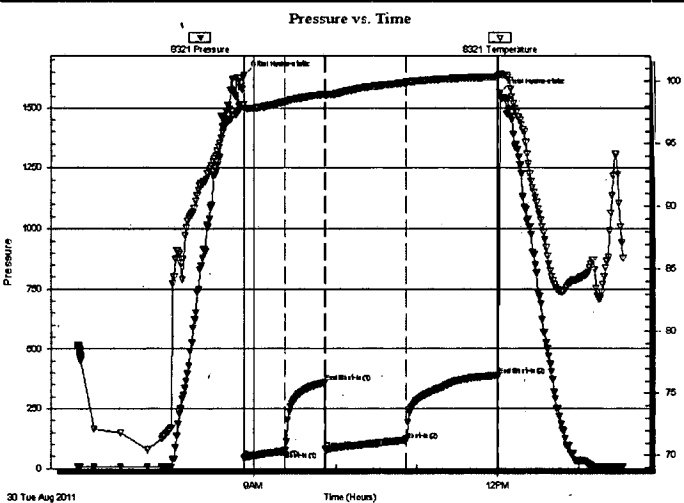
Start Time: 06:49:26

End Time: 13:32:55

Time On Btm: 2011.08.30 @ 08:52:25

Time Off Btm: 2011.08.30 @ 12:01:55

**TEST COMMENT:** IFF-Fair blow built to 5 3/4 in  
ISI-Weak surface blow back died out in 5 min  
FFP-Fair blow built to 6 1/4 in  
FSI-Dead no blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1638.48	98.15	Initial Hydro-static
1	43.19	97.84	Open To Flow (1)
31	73.89	98.34	Shut-In(1)
60	358.45	98.93	End Shut-In(1)
60	78.25	98.88	Open To Flow (2)
120	118.52	99.89	Shut-In(2)
189	388.75	100.37	End Shut-In(2)
190	1565.75	100.58	Final Hydro-static

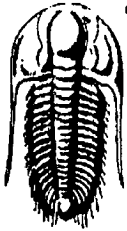
### Recovery

Length (ft)	Description	Volume (bbl)
139.00	MW with oil spots 25%M75%W	0.98
2.00	SOCWM 5%O25%M70%W	0.01
0.00	78 GIP	0.00

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Brungardt Oil & Leasing Inc

**Ruggels A-1**

PO Box 871  
Russell KS 67665+1731

**23-10-15-Osborne,KS**

Job Ticket: 039747

**DST#: 2**

ATTN: Gary Brungardt

Test Start: 2011.08.30 @ 06:49:25

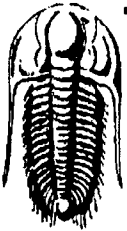
**Tool Information**

Drill Pipe:	Length: 2662.00 ft	Diameter: 3.80 inches	Volume: 37.34 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 468.00 ft	Diameter: 2.70 inches	Volume: 3.31 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:	38000.00 lb
			<b>Total Volume: 40.65 bbl</b>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	34000.00 lb
Depth to Top Packer:	3120.00 ft			Final	34000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	70.00 ft				
Tool Length:	90.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3101.00	
Shut In Tool	5.00			3106.00	
Hydraulic tool	5.00			3111.00	
Packer	4.00			3115.00	20.00 Bottom Of Top Packer
Packer	5.00			3120.00	
Stubb	1.00			3121.00	
Perforations	8.00			3129.00	
Change Over Sub	1.00			3130.00	
Drill Pipe	30.00			3160.00	
Change Over Sub	1.00			3161.00	
Recorder	0.00	8321	Inside	3161.00	
Recorder	0.00	8737	Outside	3161.00	
Perforations	26.00			3187.00	
Bullnose	3.00			3190.00	70.00 Bottom Packers & Anchor

**Total Tool Length: 90.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Brungardt Oil & Leasing Inc

**Ruggels A-1**

PO Box 871  
Russell KS 67665+1731

**23-10-15-Osborne,KS**

Job Ticket: 039747

**DST#: 2**

ATTN: Gary Brungardt

Test Start: 2011.08.30 @ 06:49:25

**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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
139.00	MW with oil spots 25%M75%W	0.984
2.00	SOCWM 5%O25%M70%W	0.014
0.00	78 GIP	0.000

Total Length: 141.00 ft      Total Volume: 0.998 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

