

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

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 # 32278
Name: Tengasco, Inc.
Address 1: PO Box 458
Address 2: 1327 Moose Rd.
City: Hays State: KS Zip: 67601 + 9744
Contact Person: Gary Wagner
Phone: (785) 625-6374
CONTRACTOR: License # 33493
Name: American Eagle
Wellsite Geologist: Mike Bair
Purchaser: Coffeyville Resources

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Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- 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 #: _____

<u>8-16-10</u>	<u>8-24-10</u>	<u>9-7-10</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 163-23888-00-00

Spot Description: _____

NE NE SW NW Sec. 21 Twp. 8 S. R. 19 East West

1,510 Feet from North / South Line of Section

1,000 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

County: Rooks

Lease Name: Zerger Well #: 2

Field Name: Webster

Producing Formation: Arbuckle

Elevation: Ground: 2013 Kelly Bushing: 2020

Total Depth: 3528 Plug Back Total Depth: 3503

Amount of Surface Pipe Set and Cemented at: 262' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: 1476 Feet

If Alternate II completion, cement circulated from: 1476

feet depth to: surface w/ 305 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 27000 ppm Fluid volume: 210 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 #: _____

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: Gary Wagner
Title: Production Manager Date: 12-9-10

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: Dog Date: 12/16/10

Operator Name: Tengasco, Inc. Lease Name: Zerger Well #: 2
 Sec. 21 Twp. 8 S. R. 19 East West County: Rooks

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 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Dual Induction, Neutron Density, Micro, PE, CBL	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1453</td> <td>+567</td> </tr> <tr> <td>Topeka</td> <td>2968</td> <td>-948</td> </tr> <tr> <td>Heebner</td> <td>3174</td> <td>-1154</td> </tr> <tr> <td>Toronto</td> <td>3194</td> <td>-1174</td> </tr> <tr> <td>Lansing</td> <td>3211</td> <td>-1193</td> </tr> <tr> <td>BKC</td> <td>3428</td> <td>-1408</td> </tr> <tr> <td>Arbuckle</td> <td>3461</td> <td>-1441</td> </tr> </table>	Name	Top	Datum	Anhydrite	1453	+567	Topeka	2968	-948	Heebner	3174	-1154	Toronto	3194	-1174	Lansing	3211	-1193	BKC	3428	-1408	Arbuckle	3461	-1441
Name	Top	Datum																							
Anhydrite	1453	+567																							
Topeka	2968	-948																							
Heebner	3174	-1154																							
Toronto	3194	-1174																							
Lansing	3211	-1193																							
BKC	3428	-1408																							
Arbuckle	3461	-1441																							

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#	262'	Com	170	3% CC 2% Gel
Production	7-7/8"	5-1/2"	14#	3527'	ASC	150	2% Gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	0 - 1476'	Lite	305	1/4# per sx Flo Seal

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
6	3467-87'	750 gal 15% NeFe	

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TUBING RECORD: Size: <u>2-7/8"</u> Set At: <u>3479'</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>9-9-10</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>11</u>	Gas Mcf _____	Water Bbls. <u>10</u>
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 checked="" 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: <u>Arb 3467-87'</u>
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ALLIED CEMENTING CO., LLC. 041745

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

SERVICE POINT:
Russell KS

DATE 8-17-10	SEC. 21	TWP. 8 S	RANGE 19 W.	CALLED OUT	ON LOCATION	JOB START 4:15 AM	JOB FINISH 4:45 AM
LEASE ZEPER	WELL # 5	LOCATION ZORCH N TORO "Q"			COUNTY Rooks	STATE KS	
OLD OR NEW (Circle one) NEW		1 W 1/2 N E INTO					

CONTRACTOR **American Eagle Rig²** OWNER **TENGASCO, Inc.**

TYPE OF JOB **SURFACE**

HOLE SIZE **12 1/4** T.D. **263**

CASING SIZE **7 5/8** DEPTH **241**

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX **300#** MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. **15-20'**

PERFS. _____

DISPLACEMENT **15 3/4 BBL**

EQUIPMENT

PUMP TRUCK CEMENTER **Glenn**

417 HELPER **Heath**

BULK TRUCK

481 DRIVER **RON**

BULK TRUCK

_____ DRIVER _____

REMARKS:

*Ran to ITS New 8 5/8 23#
CSG. SET @ 261. Reviewed
circulation. Hooked up to pump
truck & mixed 170 SK Com 3+2
Displaced 15 3/4 BBL water Behind
& shut in @ 300#. Cement
DID CIRCULATE TO SURFACE.*

THANK'S

CEMENT	170 SK COM.
AMOUNT ORDERED	390 CC
	290 GEL
COMMON	170 @ 13.50 2295.00
POZMIX	@ _____
GEL	3 @ 20.25 60.75
CHLORIDE	6 @ 51.50 309.00
ASC	@ _____

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HANDLING	170 @ 2.25 382.50
MILEAGE	110.56/mile 935.00
TOTAL	3982.25

SERVICE

DEPTH OF JOB	_____
PUMP TRUCK CHARGE	991.00
EXTRA FOOTAGE	@ _____
MILEAGE	55 @ 7.00 385.00
MANIFOLD	@ _____

TOTAL 1376.00

PLUG & FLOAT EQUIPMENT

_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____

CHARGE TO: **TENGASCO**

STREET _____

CITY _____ STATE _____ ZIP _____

ALLIED CEMENTING CO., LLC. 33746

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

SERVICE POINT: Russell

DATE <u>9-1-10</u>	SEC <u>21</u>	TWP. <u>8</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START <u>11:00am</u>	JOB FINISH <u>11:30am</u>
LEASE <u>Zenger</u>	WELL # <u>2</u>	LOCATION <u>Zurich 7 NW 1/4</u>			COUNTY <u>Rooks</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Fischer OWNER _____

TYPE OF JOB _____

HOLE SIZE _____	T.D. _____
CASING SIZE <u>5 1/2</u>	DEPTH _____
TUBING SIZE _____	DEPTH _____
DRILL PIPE _____	DEPTH _____
TOOL _____	DEPTH _____
PRES. MAX _____	MINIMUM _____
MEAS. LINE _____	SHOE JOINT _____
CEMENT LEFT IN CSG. _____	
PERFS. _____	
DISPLACEMENT <u>8.5 bbls</u>	

CEMENT AMOUNT ORDERED

305 Lite 1/2 # Flo

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Bill</u>
# <u>187</u>	HELPER <u>Wayne</u>
BULK TRUCK	
# <u>344</u>	DRIVER <u>Bill TWS</u>
BULK TRUCK	
# _____	DRIVER _____

COMMON _____	@ _____	
POZMIX _____	@ _____	
GEL _____	@ _____	
CHLORIDE _____	@ _____	
ASC _____	@ _____	
<u>Lite 305</u>	@ <u>11.85</u>	<u>3614.25</u>
<u>Flo Seal 76</u>	@ <u>2.45</u>	<u>186.20</u>
_____	@ _____	
_____	@ _____	
_____	@ _____	
_____	@ _____	
_____	@ _____	
HANDLING <u>305</u>	@ <u>2.25</u>	<u>686.25</u>
MILEAGE <u>110 ft/mile</u>		<u>1525.00</u>
TOTAL		<u>6011.70</u>

REMARKS:

Test 1000 #
P.C. C 1476 open tool
Est Circ.
Cement w/ 305 lb Lite 1/2 # Flo
Cement did Circ. - test to 1000 #
OK Wash Clean 7 pull Tubing
12cc Pat Bedore

SERVICE

DEPTH OF JOB _____	
PUMP TRUCK CHARGE _____	<u>1159.00</u>
EXTRA FOOTAGE _____	@ _____
MILEAGE <u>50</u>	@ <u>7.00</u> <u>350.00</u>
MANIFOLD _____	RECEIVED
	@
	DEC 10 2010

CHARGE TO: Tengasco Inc.

STREET _____

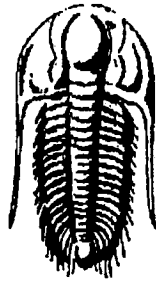
CITY _____ STATE _____ ZIP _____

KCC WICHITA TOTAL 1509.00

PLUG & FLOAT EQUIPMENT

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment

_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc**
1327 Noose Rd
Hays Ks 67601

ATTN: Rod Tremblay

21-8-19 Rooks K5

Zerger # 2

Start Date: 2010.08.21 @ 11:41:20

End Date: 2010.08.21 @ 16:56:05

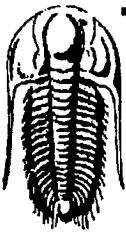
Job Ticket #: 039926 DST #: 1

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KCC WICHITA

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Tengasco Inc
 1327 Noose Rd
 Hays Ks 67601
 ATTN: Rod Tremblay

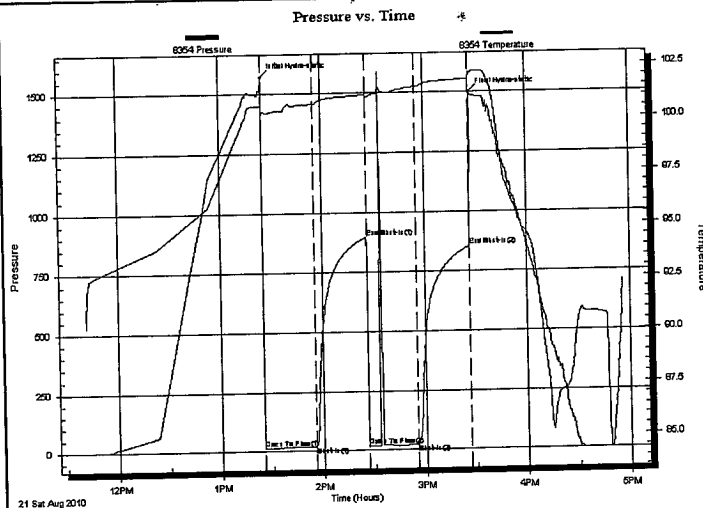
Zerger # 2
21-8-19 Rooks KS
 Job Ticket: 039926 DST#: 1
 Test Start: 2010.08.21 @ 11:41:20

GENERAL INFORMATION:

Formation: **Topeka**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:25:05
 Time Test Ended: 16:56:05
 Interval: **3138.00 ft (KB) To 3162.00 ft (KB) (TVD)**
 Total Depth: **3162.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Dan Bangle**
 Unit No: **38**
 Reference Elevations: **2020.00 ft (KB)**
 2013.00 ft (CF)
 KB to GR/CF: **7.00 ft**

Serial #: 8354 **Inside**
 Press@RunDepth: **20.53 psig @ 3139.00 ft (KB)**
 Start Date: **2010.08.21** End Date: **2010.08.21**
 Start Time: **11:41:21** End Time: **16:56:05**
 Capacity: **8000.00 psig**
 Last Calib.: **2010.08.21**
 Time On Btm: **2010.08.21 @ 13:24:50**
 Time Off Btm: **2010.08.21 @ 15:27:20**

TEST COMMENT: IF-Weak died in 10 min
 FF-No blow flushed tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1569.77	100.60	Initial Hydro-static
1	14.34	100.08	Open To Flow (1)
31	17.50	100.68	Shut-In(1)
62	897.50	101.10	End Shut-In(1)
62	18.10	100.88	Open To Flow (2)
91	20.53	101.47	Shut-In(2)
122	855.66	101.81	End Shut-In(2)
123	1499.34	102.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig Mud	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco Inc

Zerger # 2

1327 Moose Rd
Hays Ks 67601

21-8-19 Rooks KS

Job Ticket: 039926

DST#: 1

ATTN: Rod Tremblay

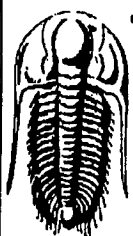
Test Start: 2010.08.21 @ 11:41:20

Tool Information

Drill Pipe:	Length: 3119.00 ft	Diameter: 3.80 inches	Volume: 43.75 bbl	Tool Weight: 2000.00 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: 50000.00 lb
		Total Volume: 43.75 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3138.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 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			3119.00	
Shut In Tool	5.00			3124.00	
Hydraulic tool	5.00			3129.00	
Packer	5.00			3134.00	20.00 Bottom Cf Top Packer
Packer	4.00			3138.00	
Stubb	1.00			3139.00	
Recorder	0.00	8354	Inside	3139.00	
Recorder	0.00	8520	Outside	3139.00	
Perforations	20.00			3159.00	
Bullnose	3.00			3162.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco Inc

Zerger # 2

1327 Noose Rd
Hays Ks 67601

21-8-19 Rooks KS

Job Ticket: 039926

DST#: 1

ATTN: Rod Tremblay

Test Start: 2010.08.21 @ 11:41:20

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:

bbbl

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drig Mud	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

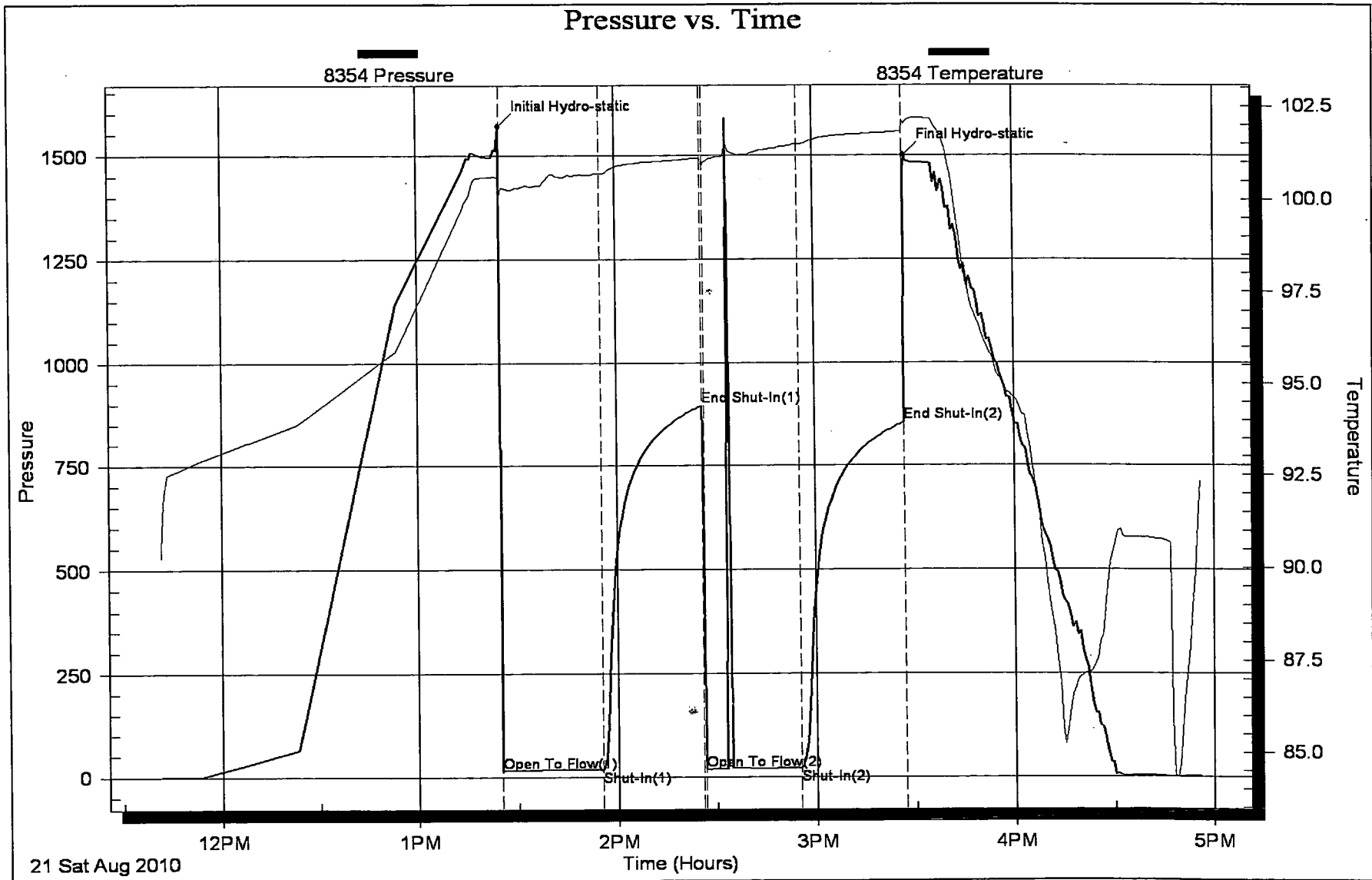
Num Gas Bombs: 0

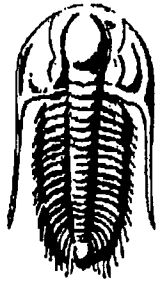
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc**

1327 Noose Rd
Hays Ks 67601

ATTN: Rod Tremblay

21-8-19 Rooks KS

Zerger # 2

Start Date: 2010.08.22 @ 23:44:16

End Date: 2010.08.23 @ 05:20:31

Job Ticket #: 039927 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Tengasco Inc

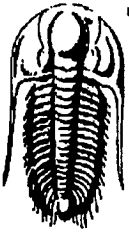
Zerger # 2

21-8-19 Rooks KS

DST # 2

Arbuckle

2010.08.22



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Tengasco Inc

Zerger # 2

1327 Noose Rd
Hays Ks 67601

21-8-19 Rooks KS

Job Ticket: 039927

DST#: 2

ATTN: Rod Tremblay

Test Start: 2010.08.22 @ 23:44:16

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:43:16

Time Test Ended: 05:20:31

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3426.00 ft (KB) To 3468.00 ft (KB) (TVD)**

Total Depth: 3468.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2020.00 ft (KB)

2013.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8354

Inside

Press@RunDepth: 17.96 psig @ 3433.00 ft (KB)

Start Date: 2010.08.22

End Date:

2010.08.23

Capacity: 8000.00 psig

Start Time: 23:44:17

End Time:

05:20:31

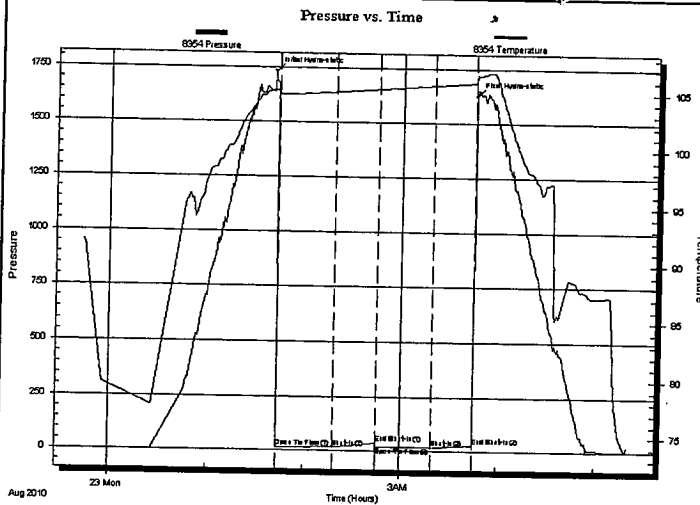
Last Calib.: 2010.08.23

Time On Btm: 2010.08.23 @ 01:41:01

Time Off Btm: 2010.08.23 @ 03:45:31

TEST COMMENT: IF-Weak died in 10 min

FF-No blow



PRESSURE SUMMARY

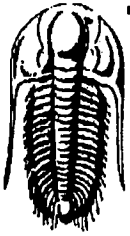
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1731.44	105.10	Initial Hydro-static
3	15.71	104.82	Open To Flow (1)
38	16.90	105.02	Shut-In(1)
65	36.00	105.30	End Shut-In(1)
65	17.80	105.30	Open To Flow (2)
99	17.96	105.65	Shut-In(2)
125	28.32	105.90	End Shut-In(2)
125	1626.95	106.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w / oil spots	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco Inc

Zerger # 2

1327 Noose Rd
Hays Ks 67601

21-8-19 Rooks KS

Job Ticket: 039927

DST#: 2

ATTN: Rod Tremblay

Test Start: 2010.08.22 @ 23:44:16

Tool Information

Drill Pipe:	Length: 3429.00 ft	Diameter: 3.80 inches	Volume: 48.10 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume:	48.10 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3426.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	62.00 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			3407.00	
Shut In Tool	5.00			3412.00	
Hydraulic tool	5.00			3417.00	
Packer	5.00			3422.00	20.00 Bottom Of Top Packer
Packer	4.00			3426.00	
Stubb	1.00			3427.00	
Perforations	5.00			3432.00	
Change Over Sub	1.00			3433.00	
Recorder	0.00	8354	Inside	3433.00	
Recorder	0.00	8520	Outside	3433.00	
Drill Pipe	31.00			3464.00	
Change Over Sub	1.00			3465.00	
Bullnose	3.00			3468.00	42.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco Inc

Zerger # 2

1327 Noose Rd
Hays Ks 67601

21-8-19 Rooks KS

Job Ticket: 039927

DST#: 2

ATTN: Rod Tremblay

Test Start: 2010.08.22 @ 23:44:16

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w/ oil spots	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

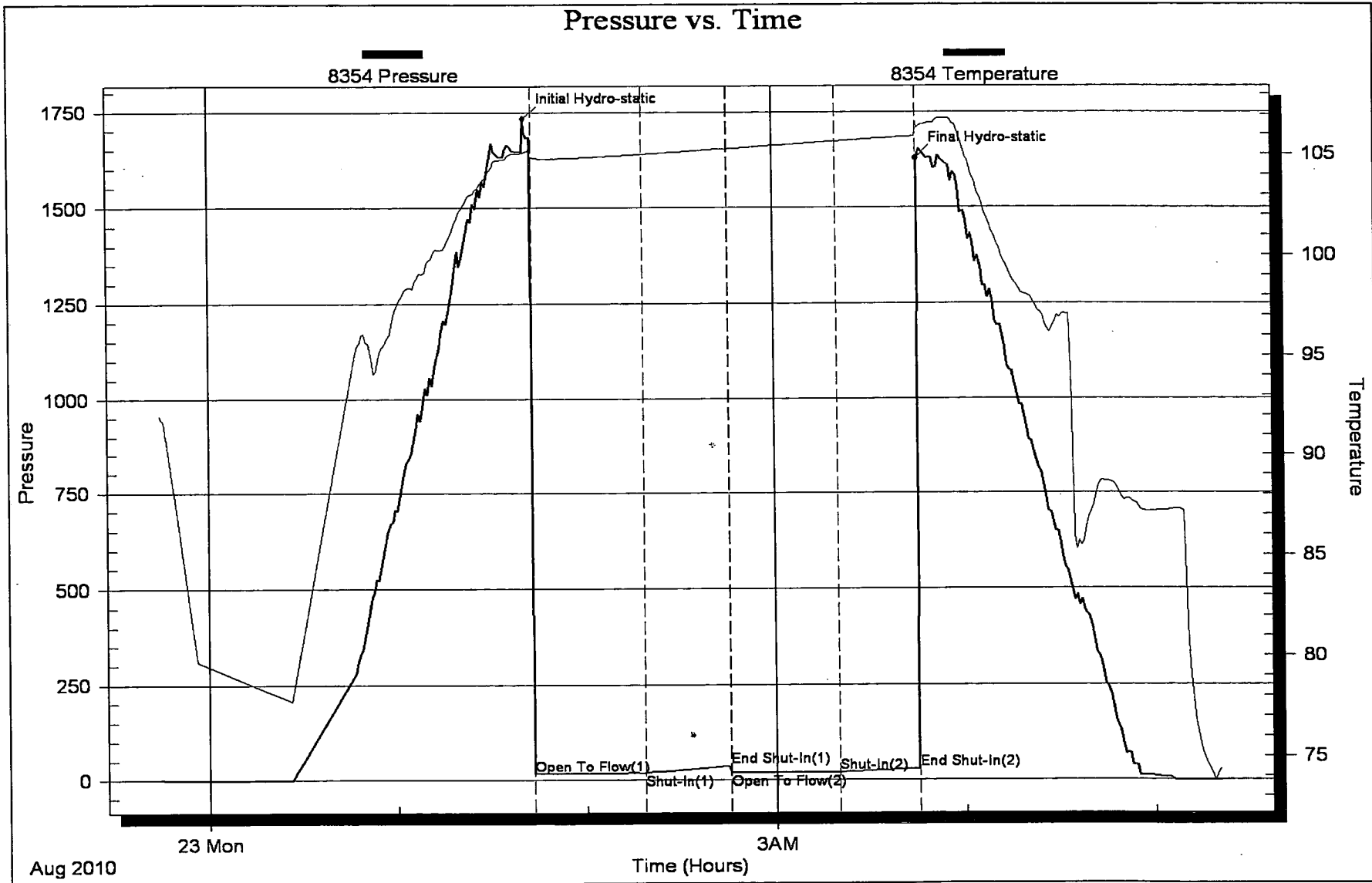
Num Gas Bombs: 0

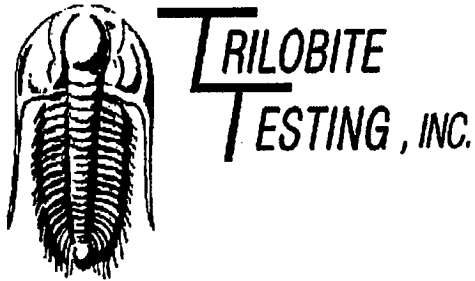
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc**

1327 Noose Rd
Hays Ks 67601

ATTN: Rod Tremblay

21-8-19 Rooks KS

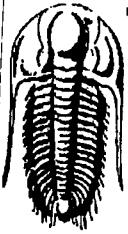
Zerger # 2

Start Date: 2010.08.23 @ 19:03:03

End Date: 2010.08.24 @ 02:15:33

Job Ticket #: 039928 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

Tengasco Inc

Zerger # 2

1327 Noose Rd
Hays Ks 67601

21-8-19 Rooks KS

Job Ticket: 039928

DST#: 3

ATTN: Rod Tremblay

Test Start: 2010.08.23 @ 19:03:03

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:31:33

Time Test Ended: 02:15:33

Test Type: Conventional Straddle

Tester: Dan Bangle

Unit No: 38

Interval: **3467.00 ft (KB) To 3485.00 ft (KB) (TVD)**

Total Depth: 3528.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2020.00 ft (KB)

2013.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8354

Inside

Press@RunDepth: 185.73 psig @ 3468.00 ft (KB)

Start Date: 2010.08.23

End Date:

2010.08.24

Capacity: 8000.00 psig

Last Calib.: 2010.08.24

Start Time: 19:03:04

End Time:

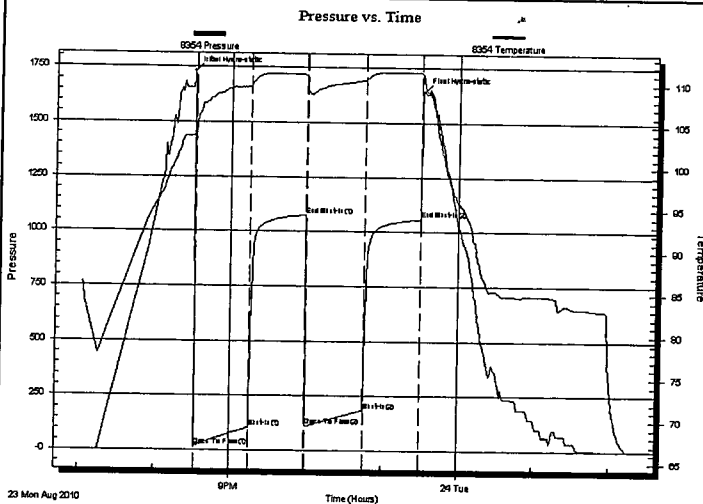
02:15:33

Time On Btm: 2010.08.23 @ 20:30:03

Time Off Btm: 2010.08.23 @ 23:31:48

TEST COMMENT: IF-Strong B-B in 18 min

FF-Weak building to 4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1729.76	103.90	Initial Hydro-static
2	18.82	104.19	Open To Flow (1)
45	104.11	109.71	Shut-In(1)
89	1074.03	111.04	End Shut-In(1)
90	111.48	109.96	Open To Flow (2)
136	185.73	110.42	Shut-In(2)
180	1058.27	111.27	End Shut-In(2)
182	1642.78	109.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 40%o 60%m	0.84
460.00	CO	6.45

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco Inc

Zerger # 2

1327 Noose Rd
Hays Ks 67601

21-8-19 Rooks KS

Job Ticket: 039928

DST#: 3

ATTN: Rod Tremblay

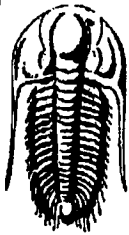
Test Start: 2010.08.23 @ 19:03:03

Tool Information

Drill Pipe:	Length: 3460.00 ft	Diameter: 3.80 inches	Volume: 48.53 bbl	Tool Weight: 2000.00 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: 50000.00 lb
			Total Volume: 48.53 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3467.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	3485.00 ft			
Interval between Packers:	18.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3448.00	
Shut In Tool	5.00			3453.00	
Hydraulic tool	5.00			3458.00	
Packer	5.00			3463.00	20.00 Bottom Of Top Packer
Packer	4.00			3467.00	
Stubb	1.00			3468.00	
Recorder	0.00	8354	Inside	3468.00	
Recorder	0.00	8520	Outside	3468.00	
Perforations	13.00			3481.00	
Blank Off Sub	1.00			3482.00	
Blank Spacing	3.00			3485.00	18.00 Tool Interval
Packer	2.00			3487.00	
Stubb	1.00			3488.00	
Recorder	0.00	8653	Outside	3488.00	
Perforations	4.00			3492.00	
Change Over Sub	1.00			3493.00	
Drill Pipe	31.00			3524.00	
Change Over Sub	1.00			3525.00	
Bullnose	3.00			3528.00	43.00 Bottom Packers & Anchor
Total Tool Length:	81.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

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Zerger # 2

1327 Moose Rd
Hays Ks 67601

21-8-19 Rooks KS

Job Ticket: 039928

DST#: 3

ATTN: Rod Tremblay

Test Start: 2010.08.23 @ 19:03:03

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCM 40%o 60%m	0.842
460.00	CO	6.453

Total Length: 520.00 ft

Total Volume: 7.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

