

KANSAS CORPORATION COMMISSION
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 # 34661
Name: Pfeifer Explorations, LLC
Address 1: 309 W 40th
Address 2: _____
City: Hays State: Kansas Zip: 67601 +
Contact Person: Jacob Pfeifer
Phone: (785) 625-7258
CONTRACTOR: License # 31548
Name: Discovery Drilling Co., Inc
Wellsite Geologist: Roger Moses
Purchaser: Coffyville

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 #: _____
3/19/12 4/18/12 4/18/12
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date
Geo Report - KCC

API No. 15 - 051-26,286-00-00
Spot Description: _____
N/2 N/2 SW NW Sec. 3 Twp. 15 S. R. 18 East West
1,400 1,490 Feet from North / South Line of Section
710 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Ellis
Lease Name: Braun-Werth Well #: 3-1
Field Name: unnamed
Producing Formation: LKC
Elevation: Ground: 2017 Kelly Bushing: 2025
Total Depth: 3700 Plug Back Total Depth: 3328
Amount of Surface Pipe Set and Cemented at: 221.99 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2021 Feet
If Alternate II completion, cement circulated from: 2021
feet depth to: Surface w/ 180 sx (circ 5sx) sx cmf.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 18000 ppm Fluid volume: 420 bbbls
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: _____
Title: Manager Date: 5-9-12

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: Dlg Date: 5/14/12

CONFIDENTIAL

RECEIVED
MAY 10 2012
KCC WICHITA

Operator Name: Pfeifer Explorations, LLC Lease Name: Braun-Werth Well #: 3-1
 Sec. 3 Twp. 15 S. R. 18 East West County: Ellis

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 Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	1198	+827
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topeka	2996	-971
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3262	-1237
List All E. Logs Run:		Toronto	3288	-1263
		Lansing	3310	-1285
		Base KC	3543	-1518
		Arbuckle	3635	-1610

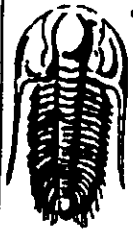
CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Pipe	12 1/4	8 5/8	23	221.99	Common	150	2%gel 3%CC
Production String	7 7/8	5 1/2	14	3683.43	EA/2	150	
			DV Tool @	2021	SMDC	180	circ 5 sx to pit

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
4	3510-14	250 gal Mud Acid	3510-14
4	3470-72	250 gal Mud Acid	3470-72
4	3336-41	250 gal Mud Acid	3336-41
4	3304-13	250 gal Mud Acid	3304-13
	CIBP		3328

TUBING RECORD:	Size: <u>2 3/8</u>	Set At: <u>3328</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>4-26-2012</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>20</u>	Gas Mcf	Water Bbls. <u>5</u>	Gas-Oil Ratio <u>38</u>

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>3304-13</u>
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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Pfeifer Exploration, LLC

3-15s-18w Ellis, KS

309 W 40th
Hays, KS 67601

Braun-Werth #3-1

ATTN: Roger Moses

Job Ticket: 47304

DST#: 2

Test Start: 2012.03.24 @ 23:16:42

GENERAL INFORMATION:

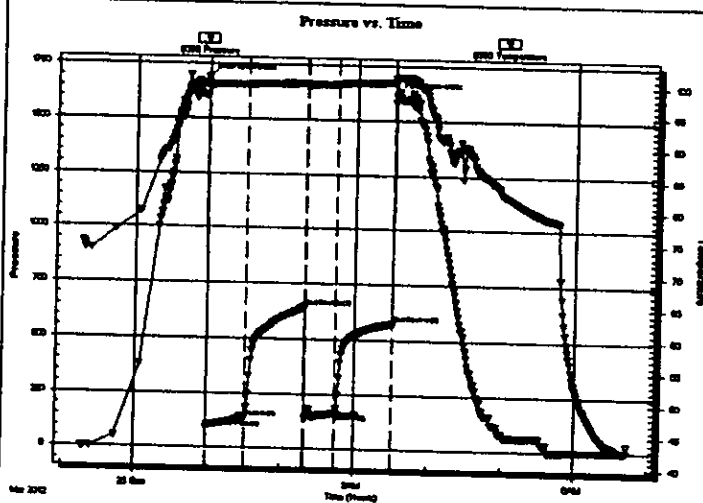
Formation: **Heebner-F**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 00:58:57
 Time Test Ended: 06:43:12
 Interval: **3257.00 ft (KB) To 3397.00 ft (KB) (TVD)**
 Total Depth: **3701.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Straddle (Reset)**
 Tester: **Jason McLemore**
 Unit No: **54**
 Reference Elevations: **2025.00 ft (KB)**
2017.00 ft (CF)
 KB to GR/CF: **8.00 ft**

Serial #: **8366** Inside
 Press@RunDepth: **164.75 psig @ 3388.00 ft (KB)**
 Start Date: **2012.03.24** End Date: **2012.03.25**
 Start Time: **23:16:44** End Time: **06:43:12**

Capacity: **8000.00 psig**
 Last Calib.: **2012.03.25**
 Time On Btm: **2012.03.25 @ 00:58:27**
 Time Off Btm: **2012.03.25 @ 03:31:27**

TEST COMMENT: **FF-Good Blow, BOB in 12 Min.**
ISI-Blow back Built to 1"
FFP-Good Blow, BOB in 9 Min.
FSI-Blow back Built to 2-1/2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.14	99.90	Initial Hydro-static
1	90.13	98.98	Open To Flow (1)
33	137.57	99.75	Shut-in(1)
81	646.67	100.07	End Shut-in(1)
82	141.74	99.88	Open To Flow (2)
106	164.75	100.00	Shut-in(2)
153	572.20	100.38	End Shut-in(2)
153	1614.14	100.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	GassyOCVM-30%G-20%O-10%W-40%M	11.83
40.00	HOCM-30%O-70%M	0.56
0.00	630' Gas In Pipe	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

Pfeifer Exploration, LLC

3-15s-18w Ellis, KS

309 W 40th
Hays, KS 67601

Braun-Werth #3-1

Job Ticket: 47304

DST#: 2

ATTN: Roger Moses

Test Start: 2012.03.24 @ 23:16:42

Tool Information

Drill Pipe:	Length: 3230.00 ft	Diameter: 3.80 inches	Volume: 45.31 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 45.46 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3257.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	3397.00 ft			
Interval between Packers:	140.00 ft			
Tool Length:	471.00 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			3230.00	
Shut In Tool	5.00			3235.00	
Hydraulic tool	5.00			3240.00	
Jars	5.00			3245.00	
Safety Joint	2.00			3247.00	
Packer	5.00			3252.00	28.00 Bottom Of Top Packer
Packer	5.00			3257.00	
Stubb	1.00			3258.00	
Perforations	1.00			3259.00	
Change Over Sub	1.00			3260.00	
Blank Spacing	127.00			3387.00	
Change Over Sub	1.00			3388.00	
Recorder	0.00	8366	Inside	3388.00	
Recorder	0.00	8789	Outside	3388.00	
Perforations	5.00			3393.00	
Blank Off Sub	1.00			3394.00	
Blank Spacing	3.00			3397.00	140.00 Tool Interval
Packer	2.00			3399.00	
Perforations	12.00			3411.00	
Recorder	0.00	8289	Below	3411.00	
Blank Spacing	285.00			3696.00	
Change Over Sub	1.00			3697.00	
Bullnose	3.00			3700.00	303.00 Bottom Packers & Anchor
Total Tool Length:	471.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Pfeifer Exploration, LLC

3-15s-18w Ellis, KS

309 W 40th
Hays, KS 67601

Braun-Werth #3-1

Job Ticket: 47304

DST#: 2

ATTN: Roger Moses

Test Start: 2012.03.24 @ 23:16:42

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:

20000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	GassyOCWM-30%G-20%O-10%W-40%M	1.831
40.00	HOCM-30%O-70%M	0.561
0.00	630' Gas In Pipe	0.000

Total Length: 190.00 ft Total Volume: 2.392 bbl

Num Fluid Samples: 0

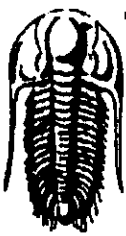
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Pfeifer Exploration, LLC
309 W 40th
Hays, KS 67601
ATTN: Roger Moses

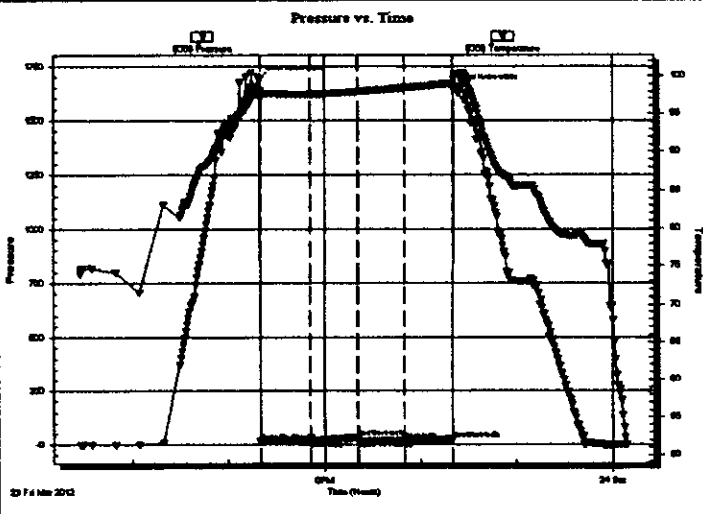
3-15s-18w Ellis, KS
Braun-Werth #3-1
Job Ticket: 47302 DST#: 1
Test Start: 2012.03.23 @ 18:27:33

GENERAL INFORMATION:

Formation: I-J
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:20:03
Time Test Ended: 00:09:18
Interval: 3467.00 ft (KB) To 3502.00 ft (KB) (TVD)
Total Depth: 3502.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Jason McLemore
Unit No: 54
Reference Elevations: 2025.00 ft (KB)
2017.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8366 Inside
Press@RunDepth: 18.51 psig @ 3469.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.03.23 End Date: 2012.03.24 Last Calib.: 2012.03.23
Start Time: 18:27:35 End Time: 00:09:18 Time On Btm: 2012.03.23 @ 20:19:48
Time Off Btm: 2012.03.23 @ 22:20:48

TEST COMMENT: IFF-Weak Blow, Died in 7 Min.
ISI-Dead
FFP-Dead
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1689.43	98.06	Initial Hydro-static
1	15.66	96.99	Open To Flow (1)
31	18.04	97.61	Shut-In(1)
61	33.20	97.93	End Shut-In(1)
61	17.04	97.92	Open To Flow (2)
91	18.51	98.43	Shut-In(2)
121	24.97	99.01	End Shut-In(2)
121	1644.85	99.64	Final Hydro-static

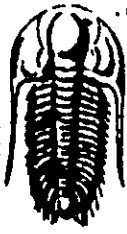
Recovery

Length (ft)	Description	Volume (bbl)
3.00	Drilling Mud	0.01

Gas Rates

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

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pfeifer Exploration, LLC

3-15s-18w Ellis, KS

309 W 40th
Hays, KS 67601

Braun-Werth #3-1

Job Ticket: 47302

DST#: 1

ATTN: Roger Moses

Test Start: 2012.03.23 @ 18:27:33

Tool Information

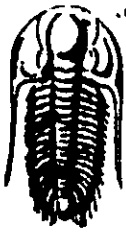
Drill Pipe:	Length: 3423.00 ft	Diameter: 3.80 inches	Volume: 48.02 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			Total Volume: 48.17 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3467.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	63.00 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			3440.00	
Shut in Tool	5.00			3445.00	
Hydraulic tool	5.00			3450.00	
Jars	5.00			3455.00	
Safety Joint	2.00			3457.00	
Packer	5.00			3462.00	28.00 Bottom Of Top Packer
Packer	5.00			3467.00	
Stubb	1.00			3468.00	
Perforations	1.00			3469.00	
Recorder	0.00	8366	Inside	3469.00	
Recorder	0.00	8289	Outside	3469.00	
Perforations	30.00			3499.00	
Bullnose	3.00			3502.00	35.00 Bottom Packers & Anchor

Total Tool Length: 63.00



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TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pfeifer Exploration, LLC

3-15s-18w Ellis, KS

309 W 40th
Hays, KS 67601

Braun-Werth #3-1

Job Ticket: 47302 DST#: 1

ATTN: Roger Moses

Test Start: 2012.03.23 @ 18:27:33

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4300.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Drilling Mud	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: