

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1103731

Form ACO-1

August 2013

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

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
- ☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer
- ☐ 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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

☐ Confidentiality Requested

Date: _____

☐ Confidential Release Date: _____

☐ Wireline Log Received

☐ Geologist Report Received

☐ UIC Distribution

ALT ☐ I ☐ II ☐ III Approved by: _____ Date: _____

5748

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

Heath's Cell 620-727-3410

Rich's Cell 620-727-3409

Office / Fax 620-672-3663

Brady's Cell 620-727-6964

Date <u>11-7-12</u>	Sec. <u>30</u>	Twp. <u>14</u>	Range <u>19</u>	County <u>Ellis</u>	State <u>KS</u>	On Location	Finish <u>10:45-11:45pm</u>
Lease <u>Gross</u>		Well No. <u>1</u>		Location <u>Hay's, KS 7W 3 1/2 S Winto</u>			
Contractor <u>Integrity #7</u>				Owner			
Type Job <u>Surface</u>				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size <u>12 1/4</u>		T.D. <u>230</u>		Charge To <u>Pleifer Exploration</u>			
Csg. <u>8 5/8</u>		Depth <u>210.92</u>		To			
Tbg. Size		Depth		Street			
Tool		Depth		City State			
Cement Left in Csg. <u>1504</u>		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace <u>13 1/4</u>		Cement Amount Ordered <u>150sx com 3% CC 2% gel</u>			
EQUIPMENT							
Pumptrk	No. <u>8</u>	<u>Coody</u>		Common <u>150</u>			
Bulktrk	No. <u>4</u>	<u>Neale</u>		Poz. Mix			
Bulktrk	No.			Gel. <u>3</u>			
Pickup	No.			Calcium <u>5</u>			
JOB SERVICES & REMARKS				Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
<u>Ran 5 Jts of 8 5/8 casing & landing jt</u>				Sand			
				Handling <u>158</u>			
<u>Est Circulation</u>				Mileage <u>12</u>			
				FLOAT EQUIPMENT			
<u>Hooked up and mixed 150 sx and disp</u>				Guide Shoe			
<u>13 1/4 bbl of H2O - Shut in @ 200 ps.</u>				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
<u>Cement + D.O. Circulate to Surface.</u>							
				Pumptrk Charge <u>Surface</u>			
				Mileage <u>12</u>			
<u>Thank You!!</u>							
				Tax			
				Discount			
				Total Charge			
X Signature <u>Don Morris</u>							

Taylor Printing, Inc.

QUALITY WELL SERVICE, INC.

5653

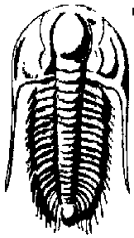
Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

Heath's Cell 620-727-3410
Office / Fax 620-672-3663

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

Date	11-13-12	Sec.	30	Twp.	14	Range	19	County	Ellis	State	KS	On Location		Finish	12:45-1:45pm
Lease	Gross	Well No.	1	Location	16y's KS 7W 3S Winto										
Contractor	Integrity Drilling				Owner										
Type Job	Rotary Plug				To Quality Well Service, Inc.										
Hole Size					You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.										
Csg.					Charge To										
Tbg. Size					Pfeiser Exploration's										
Tool					Street										
Cement Left in Csg.					City										
Meas Line					State										
				Shoe Joint				The above was done to satisfaction and supervision of owner agent or contractor.							
				Displace				Cement Amount Ordered 230sr 60/40 4%gel 1/4" FLO							
EQUIPMENT															
Pumptrk	No.	6	Richard		Common 138-										
Bulktrk	No.	5	Sean		Poz. Mix 92										
Bulktrk	No.				Gel. 8										
Pickup	No.				Calcium										
JOB SERVICES & REMARKS															
Rat Hole	30sx				Hulls										
Mouse Hole					Salt										
Centralizers	1				Flowseal 57.50										
Baskets					Kol-Seal										
D/V or Port Collar					Mud CLR 48										
1st plug @ 3750' = 25sx				CFL-117 or CD110 CAF 38											
2nd plug @ 1425' = 25sx				Sand											
3rd plug @ 680' = 100sx				Handling 238											
4th plug @ 260' = 40sx				Mileage 12											
FLOAT EQUIPMENT															
Come out of hole and push dry hole plug down - top off with 10sx				Guide Shoe											
				Centralizer											
				Baskets											
				AFU Inserts											
				Float Shoe											
				Latch Down											
				878 Dry hole plug											
				Pumptrk Charge Rotary plug											
				Mileage 12											
				Tax											
				Discount											
				Total Charge											
X Signature <i>Jeff-Morris</i>															



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Pfeifer Exploration, LLC

30-14-19, Ellis, KS

309 W. 40th
Hays KS 67601

Gross #1

Job Ticket: 50794

DST#: 1

ATTN: Duane Stecklein

Test Start: 2012.11.12 @ 17:20:00

GENERAL INFORMATION:

Formation: **KC"C,D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:55:00

Time Test Ended: 22:56:30

Test Type: Conventional Straddle (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3450.00 ft (KB) To 3490.00 ft (KB) (TVD)

Total Depth: 3822.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2135.00 ft (KB)

2126.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6753 Outside

Press@RunDepth: 25.01 psig @ 3486.00 ft (KB)

Start Date: 2012.11.12

End Date:

2012.11.12

Start Time: 17:20:05

End Time:

22:56:29

Capacity: 8000.00 psig

Last Calib.: 2012.11.12

Time On Btm: 2012.11.12 @ 18:53:30

Time Off Btm: 2012.11.12 @ 20:57:30

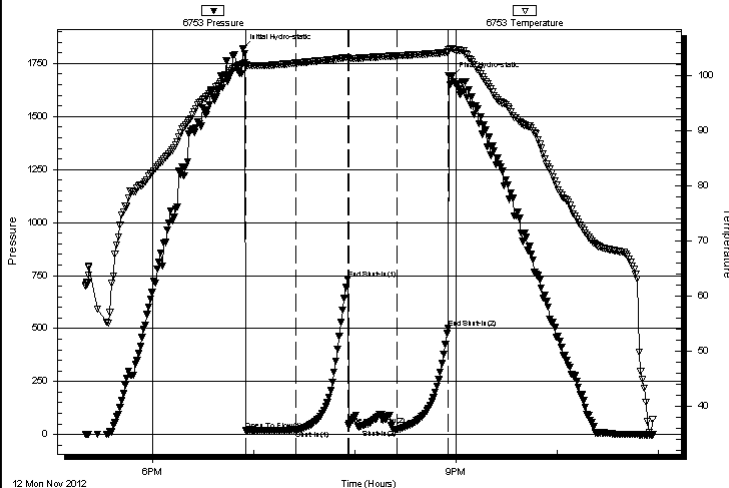
TEST COMMENT: IF-2.25in blow

ISI-No blow

FF-1in blow

FSI-No blow

Pressure vs. Time



PRESSURE SUMMARY

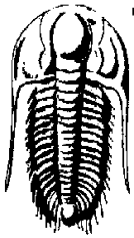
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1821.27	102.18	Initial Hydro-static
2	19.66	101.91	Open To Flow (1)
32	22.02	102.25	Shut-In(1)
62	734.37	103.29	End Shut-In(1)
63	41.53	103.04	Open To Flow (2)
92	25.01	103.57	Shut-In(2)
122	500.75	104.26	End Shut-In(2)
124	1689.86	104.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	V SOWCM 5%O 5%W 90%M	0.28

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Pfeifer Exploration, LLC

30-14-19, Ellis, KS

309 W. 40th
Hays KS 67601

Gross #1

Job Ticket: 50794

DST#: 1

ATTN: Duane Stecklein

Test Start: 2012.11.12 @ 17:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 9000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	VSOWCM 5%O 5%W 90%M	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

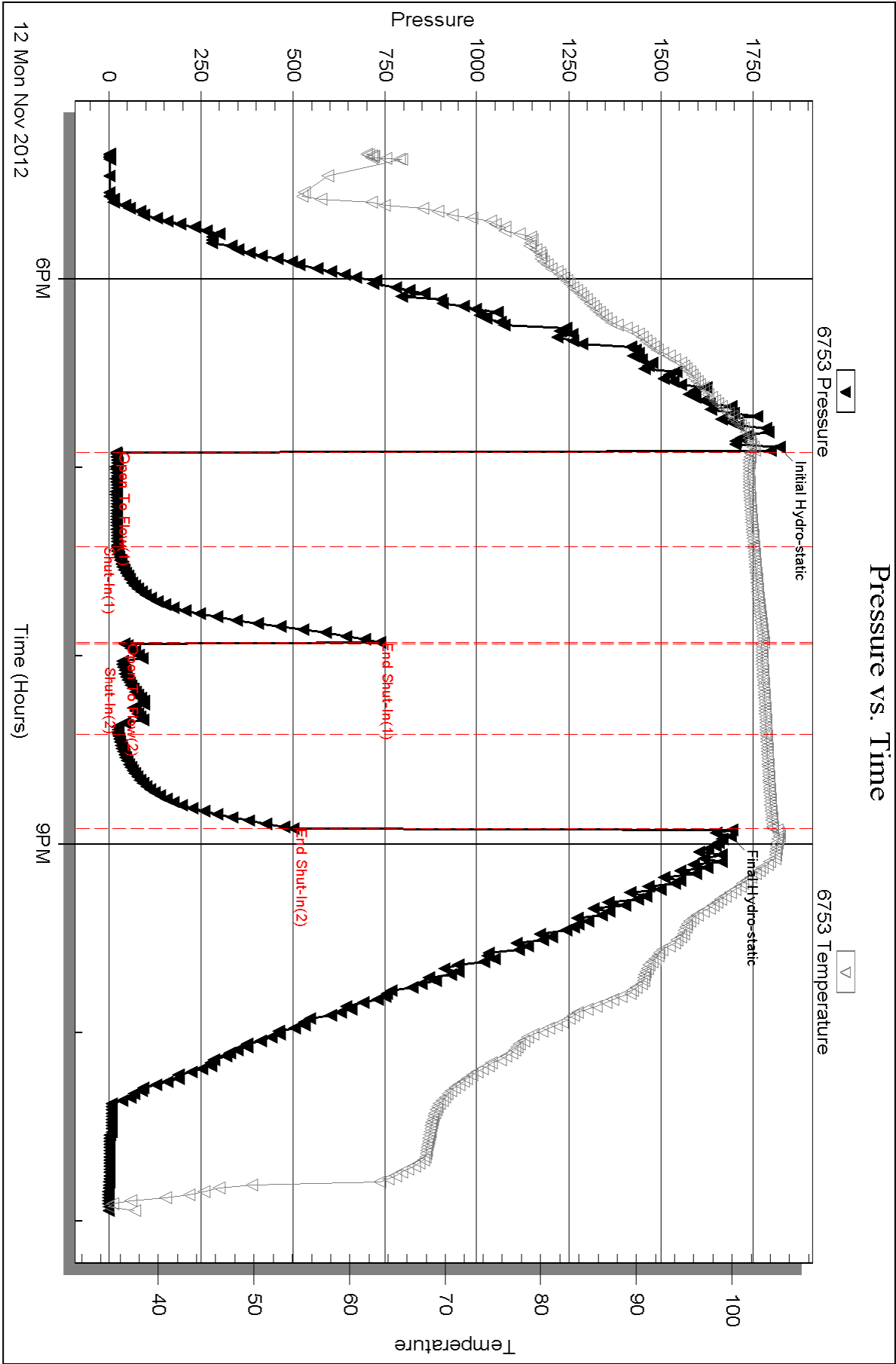
Recovery Comments:

Serial #: 6753

Outside Pfeifer Exploration, LLC

Gross #1

DST Test Number: 1



DUANE STECKLEIN

PETROLEUM GEOLOGIST

579 280TH AVE.

HAYS, KANSAS 67601

785-432-2477

GEOLOGICAL REPORT

Pfeifer Exploration, LLC

Gross #1

2060' FSL & 855' FEL

SE - NW - NE - SE

SEC. 30 TWP 14s RGE 19w

Ellis County, Kansas

COMMENCED: 11/7/12

COMPLETED: 11/12/12

CONTRACTOR: Integrity Drilling Co.

SURFACE PIPE: 8 ½" at 230'

PRODUCTION PIPE: None, D & A

Nov. 29, 2012

Formation Data

Elevation: (2134 K.B.) - (2125 G.L.)
All top formations measured from 2134 K.B..

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>SEA-LEVEL DATUM</u>
Anhydrite	1399	+735
Base Anhydrite	1444	+690
Topeka	3121	-987
Heebner	3385	-1251
Toronto	3410	-1276
Lansing-K.C.	3432	-1298
Base-K.C.	3681	-1547
Marmaton	3735	-1601
Conglomerate Sand	3765	-1631
Arbuckle	3790	-1656
R.T.D.	3820	-1686

<u>FORMATION</u>	<u>LOG TOPS</u>	<u>SEA-LEVEL DATUM</u>
Anhydrite	1398	+736
Base Anhydrite	1443	+691
Topeka	3123	-990
Heebner	3386	-1252
Toronto	3410	-1276
Lansing-K.C.	3432	-1298
Base K.C.	3683	-1549
Marmaton	3732	-1598
Conglomerate Sand.	3763	-1629
Arbuckle	3794	-1660
R.T.D.	3822	-1688

All samples were examined and described by me on actual location and did not start until a depth of 3100' was reached. All zones and sample tops examined are all true and accurate according to drillers depth.

One foot drilling time was logged from a depth of 3050' to 3820', and all zones were examined by ten foot samples at a rotary depth of 3100' to 3400'. Five foot samples were examined from a rotary depth of 3405' to 3820'.

Sample Description

Following are the pertinent geological formations and all zones of subject well Gross #1.

THE FOLLOWING ZONES WERE NOTED:

TOPEKA	3120-3132	Limestone – tan to cream, fine crystalline, poor to no inter porosity, no show of oil or odor.
	3135-3147	Limestone – same as above.
	3154-3166	Limestone- tan, fine crystalline to very dense lime, no inter porosity, no show of oil or odor.
	3170-3182	Limestone- cream, fine crystalline to sucrosic in part, no show of oil or odor.
DEER CREEK	3192-3200	Limestone- light tan to cream, grayish in part, fine crystalline to slightly chalky, no show of oil or odor.
	3205-3230	Limestone –tan, to grayish, fine crystalline to chalky in part, no inter porosity, no show of oil or odor,
	3236-3249	Limestone- tan to cream, same as above.
LECOMPTON	3260-3268	Limestone – tan, fine crystalline, chalky in part, no inter porosity, no show of oil or odor.
	3273-3296	Limestone- cream, fine crystalline to very dense lime, no inter porosity, no show of oil or odor.
OREAD LIME	3323-3333	Limestone –light tan to cream, fine crystalline, chalky in part, poor inter porosity with a very slight show of light oil stain, faint odor.

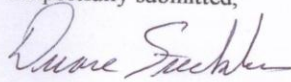
	3356-3362	Limestone – tan, fine crystalline, slightly chalky, fair to poor inter porosity with a show of light oil stain to a free oil in pin point, odor when broken.
	3366-3385	Limestone – tan, very fine crystalline, chalky, no inter porosity, no show of oil or odor.
TORONTO	3410-3416	Limestone – tan, fine crystalline to cherty lime, no visible porosity, no show of oil or odor.
LANSING – K.C.		
(A-Zone)	3432-3436	Limestone – tan to cream, same as above.
(B-Zone)	3440-3446	Limestone- cream to brownish, cherty and chalky, no visible porosity, no show of oil or odor.
(C-Zone)	3461-3471	Limestone – cream, fine crystalline, poor inter porosity with a small show of black residual stain in a vuggy porosity to a light oil stain in a crystalline porosity, slight odor when broken..
(D-Zone)	3476-3486	Limestone – same as above.
(E-Zone)	3500-3505	Limestone- same as above with a vuggular porosity in part.
(F-Zone)	3510-3515	Limestone – white to cream, fine crystalline to chalky, no inter porosity, no show of oil or odor.
(G-Zone)	3522-3526	Limestone – white, fine crystalline to very dense lime, chalky in part, very slight show or light oil stain, no odor.
(H-Zone)	3570-3584	Limestone – white to cream, very fine crystalline, chalky in part, no inter porosity, no show of oil or odor.
(I-Zone)	3594-3606	Limestone – same as above, (cherty)

(J-Zone)	3623-3630	Limestone – white to cream, very fine crystalline to chalky and cherty, very scattered show of light oil stain on cherty lime, no inter porosity, no free oil.
(K-Zone)	3640-3660	Limestone – same as above.
Base K.C.		
(L-Zone)	3670-3681	Limestone– tan and cream, very dense lime, cherty and chalky, no inter porosity, no show of oil or odor.
Marmaton	3735-3742	Chert- white, brown, light to dark staining with a black residual stain to a very slight show of free oil, slight odor when broken, poor to no inter porosity.
	3743-3750	Chert – very colored, show of black residual stain to a light stain, no free oil or odor, poor to no inter porosity.
Conglomerate Sand	3765-3790	Sand- clear, translucent, well cemented, sub rounded, fair to good show of saturated heavy oil stain to a black residual stain, show of very heavy free oil (tar oil), slight odor.
Arbuckle	3790-3820	Dolomite- cream, fine to medium crystalline, barren, no show of oil or odor, tight, no inter porosity.

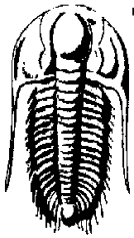
Remarks and Conclusion

During the drilling of the Gross #1, the well ran structurally low, and due to the negative results of the Drill Stem Tests #1 and #2, operator of Pfeifer Exploration decided to plug and abandon the Gross #1 as a dry hole..

Respectfully submitted,

A handwritten signature in dark ink, appearing to read "Duane Stecklein", written in a cursive style.

Duane Stecklein, Geologist



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Pfeifer Exploration, LLC

30-14-19, Ellis, KS

309 W. 40th
Hays KS 67601

Gross #1

Job Ticket: 50795

DST#: 2

ATTN: Duane Stecklein

Test Start: 2012.11.12 @ 23:40:00

GENERAL INFORMATION:

Formation: **KC "H,I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:08:00

Time Test Ended: 05:10:00

Test Type: Conventional Straddle (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3550.00 ft (KB) To 3610.00 ft (KB) (TVD)

Reference Elevations: 2135.00 ft (KB)

Total Depth: 3822.00 ft (KB) (TVD)

2126.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 6753 Outside

Press@RunDepth: 46.25 psig @ 3606.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.12

End Date:

2012.11.13

Last Calib.: 2012.11.13

Start Time: 23:40:05

End Time:

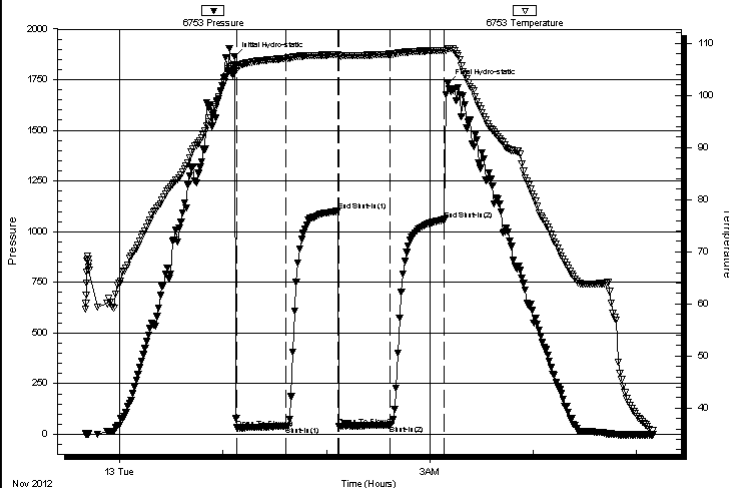
05:09:59

Time On Btm: 2012.11.13 @ 01:06:30

Time Off Btm: 2012.11.13 @ 03:10:30

TEST COMMENT: IF-2.5in blow
ISI-No blow
FF-.25in blow
FSI-No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1862.51	105.83	Initial Hydro-static
2	32.31	105.58	Open To Flow (1)
30	39.53	107.12	Shut-In(1)
60	1101.52	107.84	End Shut-In(1)
61	40.55	107.55	Open To Flow (2)
91	46.25	107.93	Shut-In(2)
122	1059.75	108.64	End Shut-In(2)
124	1729.92	108.96	Final Hydro-static

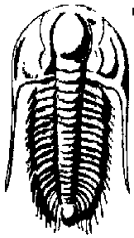
Recovery

Length (ft)	Description	Volume (bbl)
40.00	Oilspotted mud	0.56

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Pfeifer Exploration, LLC

30-14-19, Ellis, KS

309 W. 40th
Hays KS 67601

Gross #1

Job Ticket: 50795

DST#: 2

ATTN: Duane Stecklein

Test Start: 2012.11.12 @ 23:40:00

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Oilspotted mud	0.561

Total Length: 40.00 ft

Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

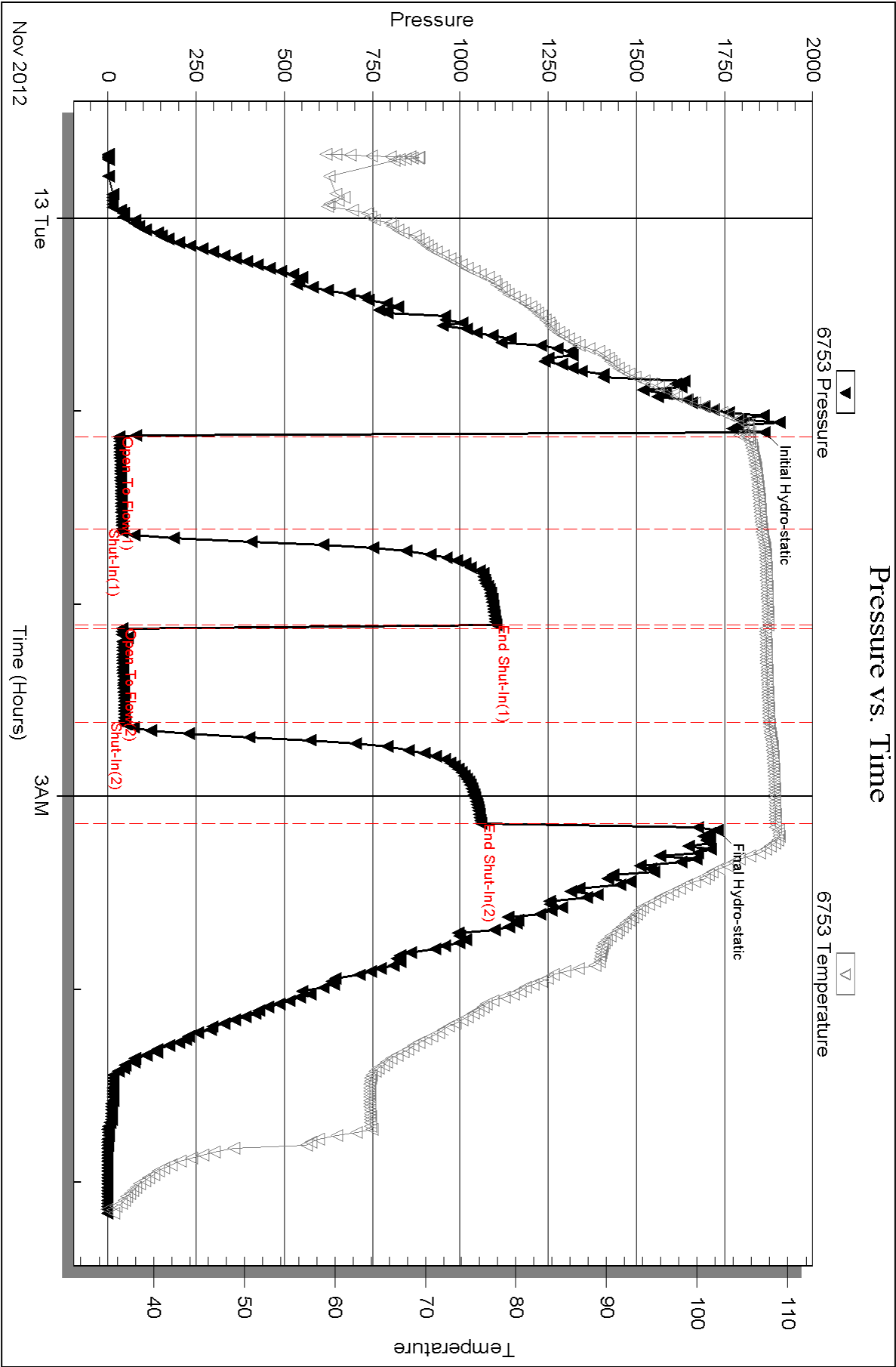
Recovery Comments:

Serial #: 6753

Outside Pfeifer Exploration, LLC

Gross #1

DST Test Number: 2



Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

December 04, 2012

Jacob Pfeifer
Pfeifer Explorations, LLC
309 W. 40TH
HAYS, KS 67601

Re: ACO1
API 15-051-26419-00-00
Gross 1
SE/4 Sec.30-14S-19W
Ellis County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Jacob Pfeifer