



KANSAS CORPORATION COMMISSION 1087001  
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 # 34506  
Name: Empire Energy E&P, LLC  
Address 1: 380 SOUTHPOINTE BLVD #130  
Address 2: \_\_\_\_\_  
City: CANONSBURG State: PA Zip: 15917 + 0561  
Contact Person: Rob Kramer  
Phone: ( 316 ) 313-4394  
CONTRACTOR: License # 33493  
Name: American Eagle Drilling LLC  
Wellsite Geologist: James Musgrove  
Purchaser: Coffeyville Resources

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 #: \_\_\_\_\_

<u>01/09/2012</u>	<u>01/11/2012</u>	<u>01/18/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-051-26248-00-00

Spot Description: \_\_\_\_\_

NE NE SW SW Sec. 16 Twp. 11 S. R. 17  East  West  
1144 Feet from  North /  South Line of Section  
1096 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Ellis

Lease Name: Schmeid Ranch Well #: 16-1

Field Name: \_\_\_\_\_

Producing Formation: Arbuckle

Elevation: Ground: 1814 Kelly Bushing: 1819

Total Depth: 3500 Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: 1073 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: 4200 ppm Fluid volume: 600 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 Gantzer Date: 07/12/2012



1087001

Operator Name: Empire Energy E&P, LLC Lease Name: Schmeid Ranch Well #: 16-1  
 Sec. 16 Twp. 11 S. R. 17  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 Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional Sheets)	<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 Attached	Top Attached Datum Attached
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 (If no, Submit Copy)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
List All E. Logs Run: <b>Attached</b>			

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	12.25	8.625	23	1073	Common Class A	450	2% Gel, 3% CaCl <sub>2</sub>

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	3223-3333	60/40 Class A/Poz	25	4% gel, 1/4 #/sk flo seal
	968-1078	60/40 Class A/Poz	25	4% gel, 1/4 #/sk flo seal

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
		100 sks. 60/40 Class A/Poz	490 ft.
		10 sks. 60/40 Class A/Poz	10 ft.

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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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 (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4) <input checked="" type="checkbox"/> Other (Specify) <u>plugged</u>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Empire Energy E&P, LLC
Well Name	Schmeid Ranch 16-1
Doc ID	1087001

All Electric Logs Run

Sonic
Micro
Dual Induction
Compensated Density Neutron PE

Form	ACO1 - Well Completion
Operator	Empire Energy E&P, LLC
Well Name	Schmeid Ranch 16-1
Doc ID	1087001

Tops

Anhydrite	1059	760
Topeka	2784	-965
Heebner	3012	-1193
Toronto	3034	-1215
Lansing	3057	-1238
Marmaton	3325	-1506
Conglomerate	3338	-1519
Simpson Shale	3355	-1536
Simpson Sand	3379	-1560
Arbuckle	3384	-1565

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.#

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

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

No. 148

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-11-12				Ellis	Kansas		5:00 PM
Lease <u>Schmid Ranch</u>	Well No. <u>1101</u>		Location <u>Hays NW 43E Smt</u>				
Contractor <u>American Eagle Drilling Rig?</u>	Owner			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.			
Type Job <u>Surface</u>	Charge To <u>Empire Energy</u>						
Hole Size <u>12 1/4</u>	T.D. <u>1280</u>		Street				
Csg. <u>8 3/8 23 1/2</u>	Depth		City State				
Tbg. Size	Depth		The above was done to satisfaction and supervision of owner agent or contractor.				
Tool <u>Bull's Plate</u>	Shoe Joint <u>217</u>		Cement Amount Ordered <u>450 Common 300 2 1/2</u>				
Cement Left in Csg.	Displace <u>66 3/4 Bbl</u>						
Meas Line	EQUIPMENT						
Pumptrk <u>15</u>	No.	Cementer <u>Steve</u>	Common <u>450</u>				
Bulktrk <u>12</u>	No.	Helper <u>Steve</u>	Poz. Mix				
Bulktrk	No.	Driver <u>Bob</u>	Gel. <u>9</u>				
	No.	Driver <u>Long</u>	Calcium <u>16</u>				
JOB SERVICES & REMARKS			Hulls				
Remarks:			Salt				
Rat Hole			Flowseal				
Mouse Hole			Kol-Seal				
Centralizers			Mud CLR 48				
Baskets			CFL-117 or CD110 CAF 38				
D/V or Port Collar			Sand				
<u>Completed Circulate</u>			Handling <u>465</u>				
			Mileage				
			FLOAT EQUIPMENT				
			Guide Shoe				
			Centralizer				
			Baskets				
			AFU Inserts				
			Float Shoe				
			Latch Down				
			<u>8 3/8 Rubber Plug</u>				
			<u>Bull's Plate</u>				
			Pumptrk Charge <u>Long Surface</u>				
			Mileage <u>8</u>				
			Tax				
			Discount				
			Total Charge				
X Signature <u>Kirk D. [Signature]</u>							

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.

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

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

No. 215

Date	1/18/12	Sec.	16	Twp.	11	Range	17	County	E. Cass	State	KS	On Location	Finish	3:30AM
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Lease Schmeid Ranch Well No. 16-1 Location Hays, N to River Rd, 1/2 E, S into

Contractor American Eagle Drilling Rig #2 Owner \_\_\_\_\_

Type Job PTA 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.

Hole Size 7 5/8" T.D. 3500' Charge To Empire Energy

Csg. \_\_\_\_\_ Depth \_\_\_\_\_ Street \_\_\_\_\_

Tbg. Size \_\_\_\_\_ Depth \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_

Tool \_\_\_\_\_ Depth \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_

Cement Left in Csg. \_\_\_\_\_ Shoe Joint \_\_\_\_\_ The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line \_\_\_\_\_ Displace \_\_\_\_\_ Cement Amount Ordered 190sx 60/40 4 1/2 gal 4# Aocel

**EQUIPMENT**

Pumptrk	9	No.	Cementer <u>Paul</u>	Helper	Common <u>1/4</u>
Bulktrk	8	No.	Driver <u>Matt</u>	Driver	Poz. Mix <u>76</u>
Bulktrk	<u>PV</u>	No.	Driver <u>Brain</u>	Driver	Gel. <u>7</u>

**JOB SERVICES & REMARKS**

Remarks:	Calcium
Rat Hole <u>30sx</u>	Hulls
Mouse Hole	Salt
Centralizers	Flowseal <u>47#</u>
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
<u>3339' - 25sx</u>	CFL-117 or CD110 CAF 38
<u>1078' - 25sx</u>	Sand
<u>490' - 100sx</u>	Handling <u>197</u>
<u>40' - 10sx</u>	Mileage

**FLOAT EQUIPMENT**

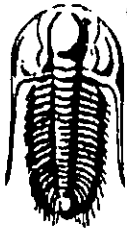
Guide Shoe	4 3/8"
Centralizer	<u>Dry Hole Plug</u>
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Thank You!!!

Pumptrk Charge Plug  
Mileage 19

	Tax	
	Discount	
	Total Charge	

X Signature \_\_\_\_\_



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Empire Energy  
17 Arentzen  
BLVD, STE 203  
ATTN: Kurt

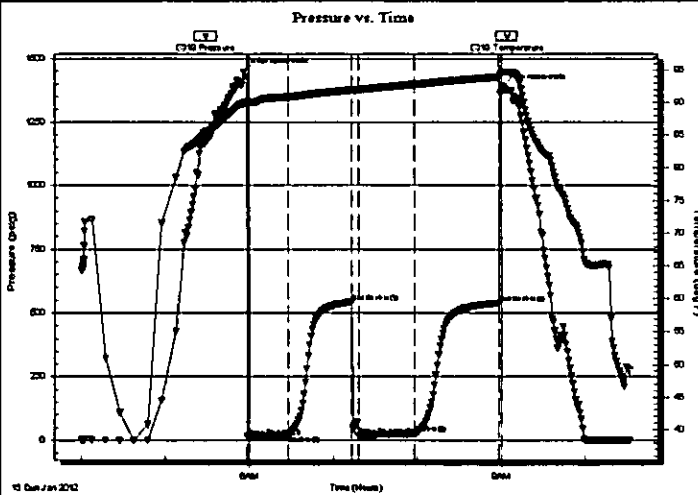
16-11-17, Ellis, Ks  
**Schmeid Ranch #16-1**  
Job Ticket: 46225      DST#: 1  
Test Start: 2012.01.15 @ 04:00:29

### GENERAL INFORMATION:

Formation: **Plattsmouth**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 05:58:29  
Time Test Ended: 10:31:59  
Interval: **2971.00 ft (KB) To 2986.00 ft (KB) (TVD)**  
Total Depth: **2971.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: Fair  
Test Type: **Conventional Bottom Hole (Initial)**  
Tester: **Brett Dickinson**  
Unit No: **59**  
Reference Elevations: **1819.00 ft (KB)**  
**1814.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

Serial #: **8319**      Inside  
Press@RunDepth: **25.05 psig @ 2972.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2012.01.15**      End Date: **2012.01.15**      Last Calib.: **2012.01.15**  
Start Time: **04:00:34**      End Time: **10:31:58**      Time On Btm: **2012.01.15 @ 05:55:59**  
Time Off Btm: **2012.01.15 @ 09:00:29**

TEST COMMENT: IF-2in blow  
ISI-No blow  
FF-1.5in blow  
FSI-No blow



### PRESSURE SUMMARY

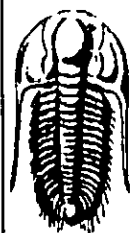
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1448.38	89.83	Initial Hydro-static
3	14.44	89.88	Open To Flow (1)
32	17.30	90.83	Shut-In(1)
77	542.80	91.90	End Shut-In(1)
82	18.55	91.91	Open To Flow (2)
122	25.05	92.75	Shut-In(2)
182	538.59	93.88	End Shut-In(2)
185	1385.81	94.66	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
30.00	MCO 30%M 70%O	0.42

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Empire Energy

16-11-17, Ellis, Ks

17 Arentzen  
BLVD, STE 203

Schmeid Ranch #16-1

Job Ticket: 46225

DST#: 1

ATTN: Kurt

Test Start: 2012.01.15 @ 04:00:29

### 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: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.80 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	MCO 30%M 70%O	0.421

Total Length: 30.00 ft

Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

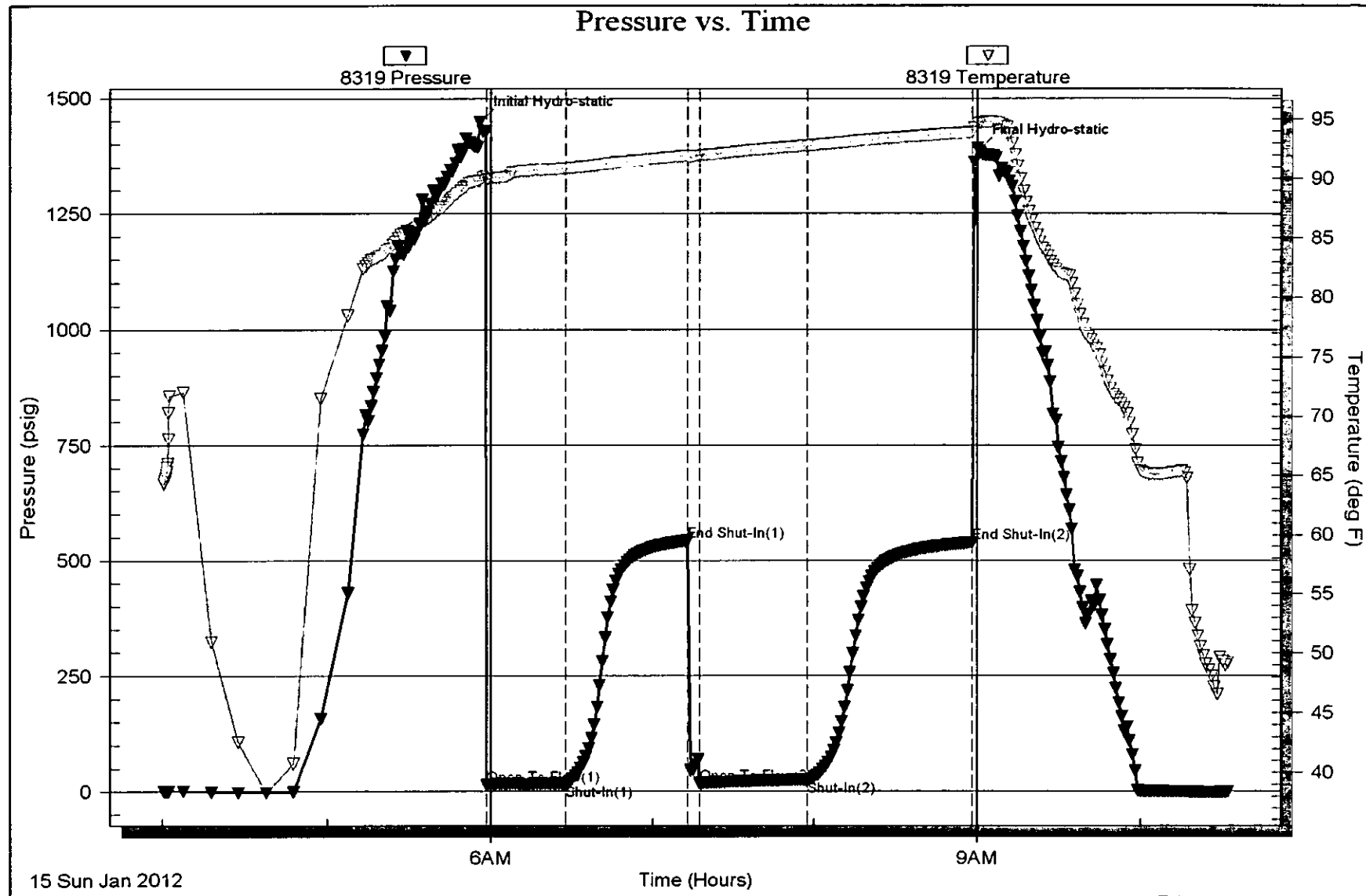
Serial #:

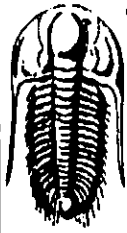
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Empire Energy

16-11-17, Ellis

17 Arentzen  
BLVD, STE 203

Schmeid Ranch #16-1

Job Ticket: 46344

DST#: 2

ATTN: Kurt

Test Start: 2012.01.16 @ 15:37:00

## GENERAL INFORMATION:

Formation: **Conglomerate**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 16:59:00

Time Test Ended: 21:30:00

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Cody Bloedorn**

Unit No: **59**

Interval: **3250.00 ft (KB) To 3335.00 ft (KB) (TVD)**

Total Depth: **3335.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1819.00 ft (KB)**

**1814.00 ft (CF)**

KB to GR/CF: **5.00 ft**

Serial #: **6753**

**Outside**

Press@RunDepth: **53.41 psig @ 3318.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2012.01.16**

End Date:

**2012.01.16**

Last Calib.: **2012.01.16**

Start Time: **15:37:05**

End Time:

**21:29:59**

Time On Btm: **2012.01.16 @ 16:58:30**

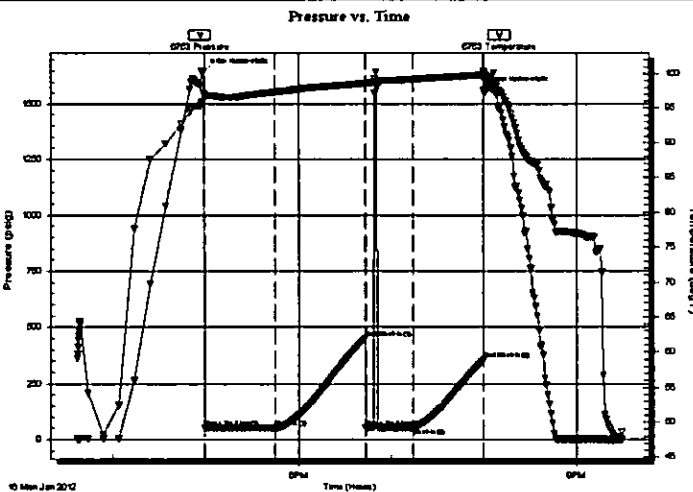
Time Off Btm: **2012.01.16 @ 20:00:00**

TEST COMMENT: **45 - IF- 1/4" blow , died to a surface blow .**

**60 - IS- No blow back**

**30 - FF- No blow back, w waited 5 Min, flushed tool, surged, no blow back**

**45 - FS- No blow back.**



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1645.43	97.18	Initial Hydro-static
1	49.96	96.76	Open To Flow (1)
46	50.61	97.35	Shut-In(1)
105	448.55	98.63	End Shut-In(1)
105	50.66	98.49	Open To Flow (2)
136	53.41	99.22	Shut-In(2)
181	353.57	99.83	End Shut-In(2)
182	1563.07	100.44	Final Hydro-static

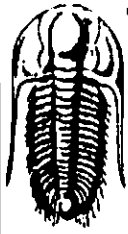
## Recovery

Length (ft)	Description	Volume (bbl)
5.00	VSOCM, 2%O, 98%M	0.07

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Empire Energy  
17 Arentzen  
BLVD, STE 203  
ATTN: Kurt

**16-11-17, Ellis**  
**Schmeid Ranch #16-1**  
Job Ticket: 46344      **DST#: 2**  
Test Start: 2012.01.16 @ 15:37:00

**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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4200.00 ppm			
Filter Cake: inches			

**Recovery Information**

**Recovery Table**

Length ft	Description	Volume bbl
5.00	VSOCM, 2%O, 98%M	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

