



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 # _____

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1087001

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 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 type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input 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 type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input 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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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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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

Name	Top	Datum
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.# 20-2886107

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
1-11-12				Ellis	Kansas		5' UTM
Lease	Well No.		Location				
Schmeid Ranch	110-1		Hays 14W 45E S10				
Contractor	Owner			To Quality Oilwell Cementing, Inc.			
American Eagle Drilling Rig				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	T.D.		Charge To				
Surface	1280		Empire Energy				
Hole Size	Depth		Street				
8 1/2 23 1/2							
Tbg. Size	Depth		City				
			State				
Tool	Depth		The above was done to satisfaction and supervision of owner agent or contractor.				
Barrel Plug							
Cement Left in Csg.	Shoe Joint		Cement Amount Ordered				
	207		450 Common Fall 2012				
Meas Line	Displace						
	66 3/361						

EQUIPMENT

Pumptrk	No.	Cementer	Common
15		Steve	450
Bulktrk	No.	Driver	Poz. Mix
12		Steve	
Bulktrk	No.	Driver	Gel.
		Steve	9
		Long	Calcium
			16

JOB SERVICES & REMARKS

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
	Sand
	Handling
	465
	Mileage

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down
8 1/2 Rubber Plug
Barrel Plug
Pumptrk Charge
Long Surface
Mileage
8

Handwritten signature: Kurt D...

Tax
Discount
Total Charge

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

No. 215

Phone 785-483-2025

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

Cell 785-324-1041

Date	1/18/12	Sec.	16	Twp.	11	Range	17	County	Ellis	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 Quality Oilwell Cementing, Inc.

Type Job ATA 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 3/8" T.D. 3800' Charge To Empire Energy

Csg. Depth Street

Tbg. Size Depth City State

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. Shoe Joint Cement Amount Ordered 190sx 60/40 4 1/2 gal 1/4 # Aocle

Meas Line Displace

EQUIPMENT

Pumptrk	9	No.	Cementor	Paul	Common	114
			Helper			
Bulktrk	8	No.	Driver	Matt	Poz. Mix	76
			Driver			
Bulktrk	PJ	No.	Driver	Brian	Gel.	7
			Driver			

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>3333' - 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	<u>8 3/8"</u>
Centralizer	<u>Dry Hole Plug</u>
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Thank You!!

Pumptrk Charge	<u>Plug</u>
Mileage	<u>19</u>

	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
Reference Elevations: 1819.00 ft (KB)
1814.00 ft (CF)
KB to GR/CF: 5.00 ft

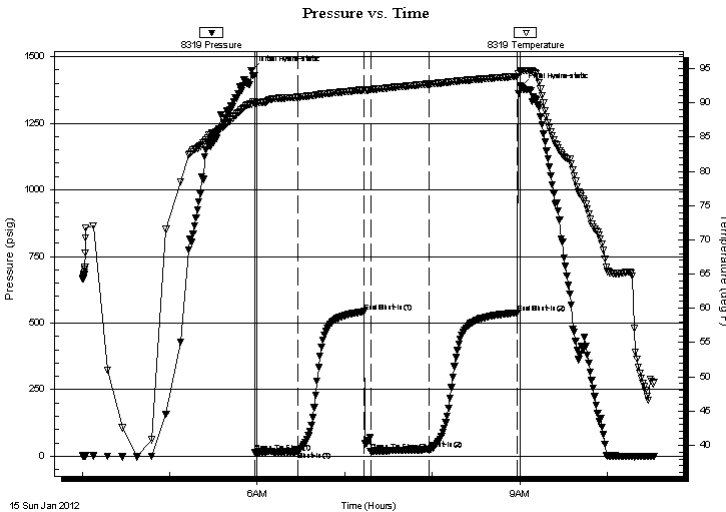
Serial #: 8319

Inside

Press @ Run Depth: 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:

bbbl

Water Loss: 6.80 in³

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:

Serial #: 8319

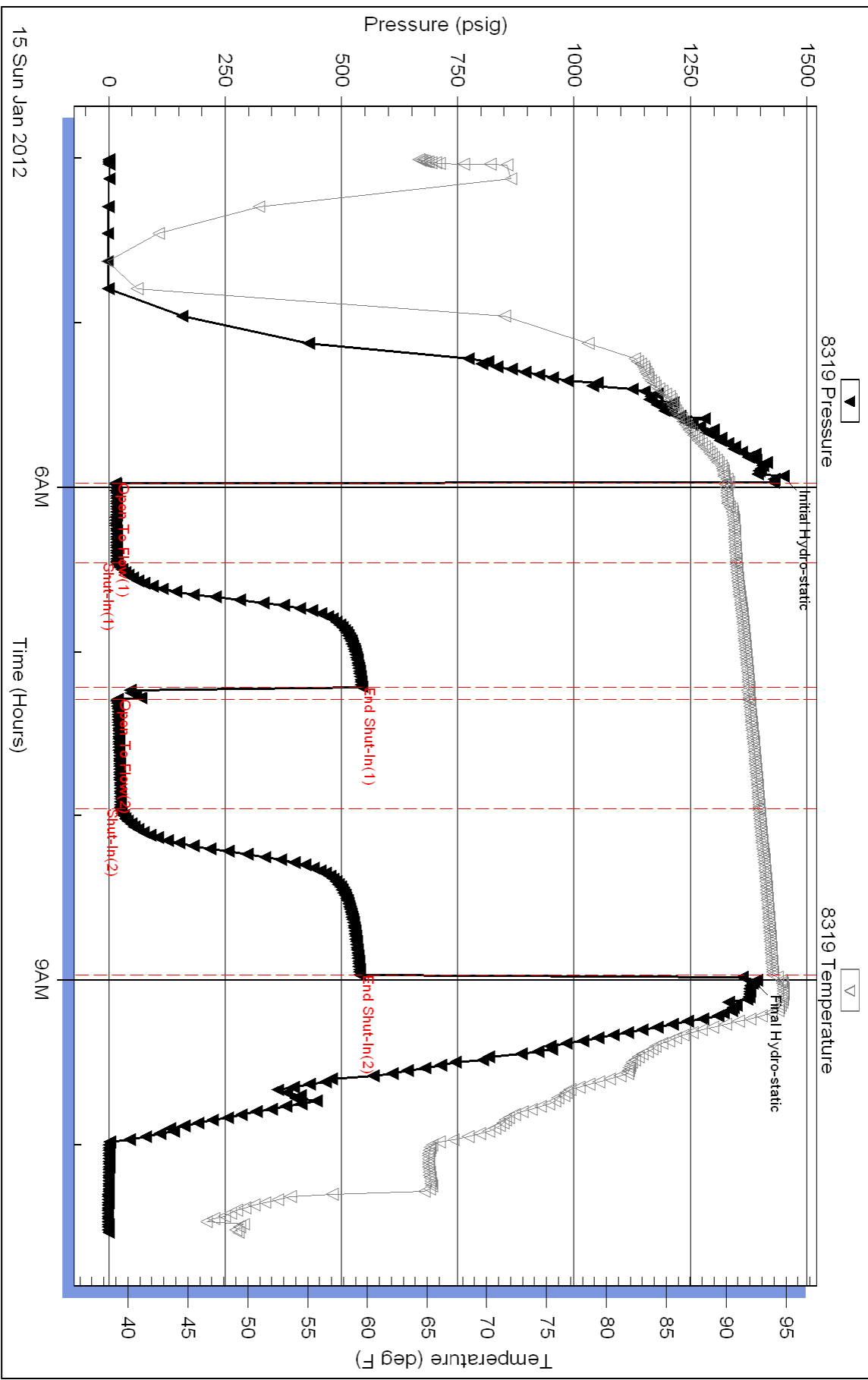
Inside

Empire Energy

Schmeid Ranch #16-1

DST Test Number: 1

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

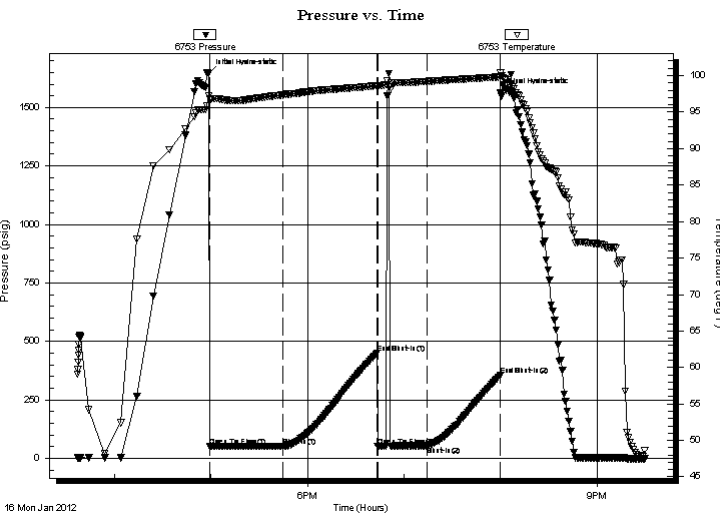
GENERAL INFORMATION:

Formation: **Conglomerate**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:59:00
Time Test Ended: 21:30:00
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

Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 59
Reference Elevations: 1819.00 ft (KB)
1814.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6753 Outside
Press @ Run Depth: 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 aited 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 (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

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: 7.20 in³

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:

