



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1068589
OIL & GAS CONSERVATION DIVISION

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
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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: _____

1068589

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

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

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	FIML Natural Resources, LLC
Well Name	Christy 5A-31-1831
Doc ID	1068589

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
		DV tool @ 3002' cmtd w/ 425 sxs Lightweight	3002
		Cmtd mouse and rat hole w/ 50 sxs Lightweight	
4	900	Squeezed w/ 160 sxs Common A cmt w/ 2% cc	900-0
	4226-28	Squeezed w/ 100 sxs Common cmt	4226-28
4	4226-28	Acidized w/ 500 gal 15% MCA	4226-28
4	4272-74	Acidized w/ 500 gal 15% MCA	4272-74
4	4304-08		4304-08
4	4338-40	Acidize w/ 500 gal 15% MCA	4338-40

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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

February 15, 2012

Cassie Parks
FIML Natural Resources, LLC
410 17TH ST STE 900
DENVER, CO 80202-4420

Re: ACO1
API 15-171-20845-00-00
Christy 5A-31-1831
NW/4 Sec.31-18S-31W
Scott 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,
Cassie Parks



24 S. Lincoln Street
 P.O. Box 31
 Russell, KS 67665-2906
 Voice: (817) 546-7282
 Fax: (817) 246-3361

2347



INVOICE

Invoice Number: 129317
 Invoice Date: Nov 13, 2011
 Page: 1

Bill To:

FIML Natural Resources LLC
 410 17th St., Suite 900
 Denver, CO 80202

Federal Tax I.D.#: 20-5975804

Customer ID	Well Name# or Customer P.O.	Payment Terms	
FIML	Christy 5A-31-1831	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Nov 13, 2011	12/13/11

Quantity	Item	Description	Unit Price	Amount
240.00	MAT	Class A Common	16.25	3,900.00
5.00	MAT	Gel	21.25	106.25
9.00	MAT	Chloride	58.20	523.80
60.00	MAT	FloSeal	2.70	162.00
254.00	SER	Handling	2.25	571.50
55.00	SER	Mileage	27.94	1,536.70
1.00	SER	Surface	1,125.00	1,125.00
75.00	SER	Extra Footage	0.95	71.25
110.00	SER	Heavy Vehicle Mileage	7.00	770.00
1.00	SER	Manifold Head Rental	200.00	200.00
110.00	SER	Light Vehicle Mileage	4.00	440.00
1.00	EQP	8 5/8 Fiber Baffle Plate	175.00	175.00
3.00	EQP	8 5/8 Centralizers	64.00	192.00
1.00	EQP	8 5/8 Wooden Plug	92.00	92.00
1.00	CEMENTER	Terry Heinrich		
1.00	EQUIP OPER	Jerry Yates		
1.00	OPER ASSIST	Chris Helpingstine		

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 1973.10

ONLY IF PAID ON OR BEFORE
 Dec 8, 2011

Subtotal	9,865.50
Sales Tax	376.03
Total Invoice Amount	10,241.53
Payment/Credit Applied	
TOTAL	10,241.53

D 11217

8100-145
 Adam D. BA

-1973.10
 8268.43

ALLIED CEMENTING CO., LLC. 035927

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
OKLAHOMA

DATE <i>11-13-11</i>	SEC <i>31</i>	TWP. <i>18S</i>	RANGE <i>31W</i>	CALLED OUT	ON LOCATION <i>10:15 AM</i>	JOB START <i>5:00 AM</i>	JOB FINISH <i>5:30 AM</i>
LEASE <i>CHRISTY</i>	WELL# <i>5A-31-1932</i>	LOCATION <i>SLOTT CITY 6 E-2 1/2 S-E IN</i>		COUNTY <i>SCOTT</i>	STATE <i>KS</i>		

CONTRACTOR *H 2 DRILLING REYNOLDS* OWNER *SAME*

TYPE OF JOB *SURFACE*

HOLE SIZE *12 1/4"* T.D. *377'*

CASING SIZE *8 3/8"* DEPTH *375'*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT *40.44*

CEMENT LEFT IN CSG. *40.44*

PERFS.

DISPLACEMENT

EQUIPMENT

PUMP TRUCK CEMENTER *TERRY*
423-291 HELPER *TERRY*

BULK TRUCK
347 DRIVER *CHRIS*

BULK TRUCK DRIVER

CEMENT AMOUNT ORDERED
240 SKS COM 39% CC 2 1/2" FLO-SEAL

COMMON *240 SKS @ 16.25 3900.00*

POZMIX @

GEL *5 SKS @ 21.25 106.25*

CHLORIDE *9 SKS @ 58.20 523.80*

ASC @

FLO-SEAL 60" @ *2.70 162.00*

HANDLING *254 SKS @ 2.25 571.50*

MILEAGE *74 PER SKL MILE @ 1536.20*

TOTAL *6800.25*

REMARKS:

Hook up to 8 3/8" CASING & BREAK CIRCULATION.
Circulate 70 min. at 100 GPM 5 BBLs WATER
Followed BY 240 SKS COM 39% CC 2 1/2" FLO-SEAL.
OPEN PERM & DROP PLUG & RESPIKE
2 1/2 BBLs WATER. Plug landed at 150
PSFV SHUT IN
CEMENT did circulate

THANK YOU

SERVICE

DEPTH OF JOB *375'*

PUMP TRUCK CHARGE *1125.00*

EXTRA FOOTAGE *75' @ .95 71.25*

MILEAGE *5.5 X 2 @ 7.00 77.00*

MANIFOLD & HEAD @ *200.00*

LIGHT VEHICLE *552 @ 4.00 440.00*

TOTAL *2606.25*

CHARGE TO: *FIML*

STREET _____

CITY _____ STATE _____ ZIP _____

8 3/8" PLUG & FLOAT EQUIPMENT

1- FIBER RAFFLE PLUG 775.00

3- CONTRACTORS @ 64.00 192.00

1- wooden plug @ 92.00

TOTAL *459.00*

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME *Gary Dale*

SIGNATURE *Gary Dale*

24 S. Lincoln Street
P.O. Box 31
Russell, KS 67665-2906
Voice: (817) 546-7282
Fax: (817) 246-3361



INVOICE

Invoice Number: 129382
Invoice Date: Nov 21, 2011
Page: 1

Bill To:
FIML Natural Resources LLC
410 17th St., Suite 900
Denver, CO 80202

Federal Tax I.D.#: 20-5975804

Customer ID	Well Name# or Customer P.O.	Payment Terms	
FIML	Christy 5A-31-1831	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Nov 21, 2011	12/21/11

Quantity	Item	Description	Unit Price	Amount
6.00	MAT	Gel	21.25	127.50
295.00	MAT	ASC	19.00	5,605.00
27.00	MAT	Salt	23.95	646.65
1,475.00	MAT	Gilsonite	0.89	1,312.75
74.00	MAT	FloSeal	2.70	199.80
378.00	SER	Handling	2.25	850.50
55.00	SER	Mileage	41.58	2,286.90
1.00	SER	Production Bottom Stage	2,405.00	2,405.00
110.00	SER	Heavy Vehicle Mileage	7.00	770.00
1.00	SER	Manifold Head Rental	200.00	200.00
110.00	SER	Light Vehicle Mileage	4.00	440.00
1.00	EQP	5 1/2 DV Tool	4,921.00	4,921.00
1.00	EQP	5 1/2 SureSeal Float Shoe	520.00	520.00
1.00	EQP	5 1/2 SureSeal Float Collar	620.00	620.00
25.00	EQP	5 1/2 Centralizers	49.00	1,225.00
2.00	EQP	5 1/2 Baskets	337.00	674.00
1.00	EQP	5 1/2 Lock Ring	42.00	42.00
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	Tony Pfannenstiel		

DI1217

Subtotal	22,846.10
Sales Tax	1,160.24
Total Invoice Amount	24,006.34
Payment/Credit Applied	
TOTAL	24,006.34

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 4659.22

ONLY IF PAID ON OR BEFORE
Dec 16, 2011

** Gary Duke*

8200-118
Alan D. Bl
\$ 19347.12 ✓

ALLIED CEMENTING CO., LLC. 036035

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Dokkey, Ky

DATE <i>4/21/11</i>	SEC <i>31</i>	TWP. <i>183</i>	RANGE <i>31W</i>	CALLED OUT	ON LOCATION	JOB START <i>5:30 AM</i>	JOB FINISH <i>6:30 PM</i>
LEASE <i>Christy</i>	WELL# <i>A5</i>	LOCATION <i>Scott City E To Radio 2145</i>			COUNTY <i>Scott</i>	STATE <i>Ks</i>	
OLD OR NEW (Circle one)				<i>EXIST</i>			

CONTRACTOR *H2 #1*
 TYPE OF JOB *Production Better Stage*
 HOLE SIZE *9 1/8* T.D.
 CASING SIZE *8 1/2* 15 1/8" DEPTH *4764*
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL *DV* DEPTH *3002.33'*
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT *22.3*
 CEMENT LEFT IN CSG. *22.3*
 PERFS.
 DISPLACEMENT *41 H2O, 10L Rg Mud*

OWNER *Same*
 CEMENT
 AMOUNT ORDERED *295 ASC 1070 Salt 290*
gel 5# Gilsonite 4616 Flo Seal
500 Gal WFRH

COMMON	@		
POZMIX	@		
GEL <i>6</i>	@	<i>21.25</i>	<i>127.00</i>
CHLORIDE	@		
ASC <i>295 SK</i>	@	<i>19.00</i>	<i>5605.00</i>
<i>Salt 27 SK</i>	@	<i>23.95</i>	<i>646.65</i>
<i>Gilsonite 1475 lb</i>	@	<i>.89</i>	<i>1312.25</i>
<i>Flo Seal 2416</i>	@	<i>2.20</i>	<i>199.20</i>
<i>WFRH 500 gal</i>	@	<i>1.27</i>	<i>635.00</i>
HANDLING <i>378 SK</i>	@	<i>2.25</i>	<i>850.00</i>
MILEAGE <i>11.9 SK/mile</i>	@		<i>2286.00</i>
TOTAL			<i>8351.10</i>

EQUIPMENT
 PUMP TRUCK CEMENTER *Alan*
 # *422* HELPER *Wayne*
 BULK TRUCK
 # *396* DRIVER *Tony - Russell*
 BULK TRUCK
 # DRIVER

REMARKS:

lost circulation on
Amly Circulate 2000 PPM, Mix Cement, Wash up,
Original Plug 4 1/4" x 11 1/2" x 20'
Lead Plug @ 2000 PSI, Deep opening tool, open tool
Circulate w/ Rg 4 hrs

Thank You
Alan, Wayne, Tony

SERVICE

DEPTH OF JOB	<i>4764</i>		
PUMP TRUCK CHARGE			<i>2405.00</i>
EXTRA FOOTAGE	@		
MILEAGE <i>55 x 2</i>	@	<i>7.00</i>	<i>770.00</i>
MANIFOLD <i>- Hand</i>	@		<i>200.00</i>
Lite Vehicle <i>55 x 2</i>	@	<i>4.00</i>	<i>440.00</i>
TOTAL			<i>3815.00</i>

PLUG & FLOAT EQUIPMENT

<i>DV 7001</i>	<i>- 1</i>		<i>4921.00</i>
<i>SureSeal Plant Shop</i>	<i>- 1</i>	@	<i>520.00</i>
<i>SureSeal Plant Collar</i>	<i>- 1</i>	@	<i>620.00</i>
<i>centralizer</i>	<i>- 25</i>	@	<i>49.00</i>
<i>Baskets</i>	<i>- 2</i>	@	<i>337.00</i>
<i>Coak Ring</i>	<i>- 1</i>	@	<i>40.00</i>
TOTAL			<i>8002.00</i>

SALES TAX (If Any)
 TOTAL CHARGES
 DISCOUNT IF PAID IN 30 DAYS

CHARGE TO: *FPM*
 STREET
 CITY STATE ZIP

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME *Gary Dake*
 SIGNATURE *W Gary Dake*

24 S. Lincoln Street
P.O. Box 31
Russell, KS 67665-2906

Voice: (817) 546-7282
Fax: (817) 246-3361



INVOICE

Invoice Number: 129385
Invoice Date: Nov 21, 2011
Page: 1

Bill To:
FIML Natural Resources LLC
410 17th St., Suite 900
Denver, CO 80202

Federal Tax I.D.#: 20-5975804

Customer ID	Well Name# or Customer P.O.	Payment Terms	
FIML	Christy 5A-31-1831	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Nov 21, 2011	12/21/11

Quantity	Item	Description	Unit Price	Amount
475.00	MAT	Class A Lightweight	14.50	6,887.50
119.00	MAT	FloSeal	2.70	321.30
2,375.00	MAT	Gilsonite	0.89	2,113.75
561.00	SER	Handling	2.25	1,262.25
55.00	SER	Mileage	61.71	3,394.05
1.00	SER	Production Top Stage	2,125.00	2,125.00
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	Tony Pfannenstiel		

D1127

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 3220.77

ONLY IF PAID ON OR BEFORE
Dec 16, 2011

Subtotal	16,103.85
Sales Tax	680.55
Total Invoice Amount	16,784.40
Payment/Credit Applied	
TOTAL	16,784.40

*Gary Duke

820.118
Adrian G. BA
135163.63

ALLIED CEMENTING CO., LLC. 036036

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Osage Bluffs

DATE <i>11/21/14</i>	SEC <i>31</i>	TWP <i>18S</i>	RANGE <i>31W</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <i>Christy</i>	WELL # <i>50A</i>	LOCATION <i>Scott Co. E to Rader</i>			COUNTY <i>Scott</i>	STATE <i>Ks</i>	
OLD OR NEW (Circle one)		<i>2 1/4 5" into</i>					

CONTRACTOR <i>H2 #1</i>	OWNER <i>Same</i>
TYPE OF JOB <i>Production</i>	
HOLE SIZE	T.D.
CASING SIZE <i>5 1/2</i>	DEPTH <i>3002.33</i>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL <i>OV</i>	DEPTH <i>3002.33</i>
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <i>0</i>	
PERFS.	
DISPLACEMENT	

EQUIPMENT	
PUMP TRUCK	CEMENTER <i>Alan</i>
# <i>422</i>	HELPER <i>Wayne</i>
BULK TRUCK	DRIVER <i>Tony</i>
# <i>394</i>	
BULK TRUCK	
#	DRIVER

REMARKS:
Plug Ret Hole 30 SKs. Plug Monor Hole 15 SKs
Mix 425 SK ALW 1/4 Flo 5" Gilsonite
Wash up: Displace Plug to Tool w/ 400 SK
w/ 500 PSI. 2nd Plug @ 2000 PSI
Tool Closed.
Lost Circulation w/ 400 SKs mixed
Cement did NOT Circulate

Thank You
Alan Wayne Tony

CEMENT	AMOUNT ORDERED <i>425 ALW 11/16</i>
	<i>Flo Seal 5" Gilsonite</i>
COMMON	@
POZMIX	@
GEL	@
CHLORIDE	@
ASC	@
<i>ALW</i>	<i>425 SKs @ 14.00 6887.50</i>
<i>Flo Seal</i>	<i>11916 @ 2.20 321.30</i>
<i>Gilsonite</i>	<i>237516 @ 1.89 2113.25</i>
HANDLING <i>561</i>	@ <i>2.25 1262.25</i>
MILEAGE <i>114 SK/mile</i>	@ <i>3394.00</i>
TOTAL <i>13978.00</i>	

CHARGE TO: *FJML*
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE	
DEPTH OF JOB	<i>3002.33</i>
PUMP TRUCK CHARGE	<i>2125.00</i>
EXTRA FOOTAGE	@
MILEAGE <i>55X 2</i>	@ <i>2.00 110.00</i>
MANIFOLD	@ <i>200.00 200.00</i>
<i>Liter Vehicle 55X 2</i>	@ <i>4.00 80.00</i>
TOTAL <i>2125.00</i>	

To Allied Cementing Co., LLC.
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PLUG & FLOAT EQUIPMENT	
	@
	@
	@
	@
	@
TOTAL _____	

PRINTED NAME *Alan Wayne Tony*
 SIGNATURE *[Signature]*

SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS



24 S. Lincoln Street
 P.O. Box 31
 Russell, KS 67665-2906
 Voice: (817) 546-7282
 Fax: (817) 246-3361



2347
INVOICE

Invoice Number: 129476
 Invoice Date: Nov 30, 2011
 Page: 1

Bill To:
 FIML Natural Resources LLC
 410 17th St., Suite 900
 Denver, CO 80202

Federal Tax I.D.#: 20-5975804

Customer ID	Well Name# or Customer P.O.	Payment Terms	
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Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Nov 30, 2011	12/30/11

Quantity	Item	Description	Unit Price	Amount
160.00	MAT	Class A Common	16.25	2,600.00
4.00	MAT	Chloride	58.20	232.80
164.00	SER	Handling	2.40	393.60
55.00	SER	Mileage	18.04	992.20
1.00	SER	Surface	1,050.00	1,050.00
55.00	SER	Heavy Vehicle Mileage	7.00	385.00
1.00	SER	Manifold Head Rental	200.00	200.00
55.00	SER	Light Vehicle Mileage	4.00	220.00
1.00	EQP	5 1/2 Rubber Plug	73.00	73.00
1.00	CEMENTER	Andrew Forslund		
1.00	EQUIP OPER	Jerry Yates		
1.00	OPER ASSIST	Chris Helpingstine		

Eddie Seva
 8200-118
 D11217

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 1229.32

ONLY IF PAID ON OR BEFORE
 Dec 25, 2011

Subtotal	6,146.60
Sales Tax	212.12
Total Invoice Amount	6,358.72
Payment/Credit Applied	
TOTAL	6,358.72

-1229.32
 5129.40

2046

ALLIED CEMENTING CO., LLC. 035290

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Oakley

DATE <u>11-30-11</u>	SEC <u>31</u>	TWP. <u>18S</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>3:30am</u>	JOB FINISH <u>4:00pm</u>
LEASE <u>CHRISTY</u>	WELL # <u>SA-3-1831</u>	LOCATION <u>Scott city 6E 2ks</u>			COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				CIN TO			

CONTRACTOR Chryenne well service OWNER same

TYPE OF JOB Circulate cement to surface

HOLE SIZE	T.D.	CEMENT
CASING SIZE <u>5 1/2</u>	DEPTH	AMOUNT ORDERED <u>160 sks com</u>
TUBING SIZE	DEPTH	<u>2600</u>
DRILL PIPE	DEPTH	
TOOL	DEPTH	
PRES. MAX	MINIMUM	
MEAS. LINE	SHOE JOINT	
CEMENT LEFT IN CSG. <u>50'</u>		COMMON <u>160 sks @ 16.25 2600.00</u>
PERFS. <u>900</u>		POZMIX @
DISPLACEMENT <u>20 DBC</u>		GEL @
		CHLORIDE <u>4 sks @ 58.20 232.80</u>
		ASC @

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Andrew</u>
# <u>423-281</u>	HELPER <u>Jerry</u>
BULK TRUCK	
# <u>404</u>	DRIVER <u>chris</u>
BULK TRUCK	
#	DRIVER

HANDLING <u>164 sks @ 2.40</u>	<u>393.60</u>
MILEAGE <u>118 sk/mile</u>	<u>992.20</u>
TOTAL	<u>4218.60</u>

REMARKS:

take injection rate 300 min
200#, mix 160 sks cement
Release plug displace, 700#
LIFT pressure cement did
circulate, shut IN

thank you

CHARGE TO: FJML

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>900'</u>	
PUMP TRUCK CHARGE	<u>1050.00</u>
EXTRA FOOTAGE @	
MILEAGE <u>55 miles @ 7.00</u>	<u>385.00</u>
MANIFOLD <u>head @</u>	<u>200.00</u>
<u>Light vehicle @ 4.00</u>	<u>220.00</u>
TOTAL	<u>1855.00</u>

PLUG & FLOAT EQUIPMENT

<u>5 1/2</u>	
<u>1 Rubber plug @</u>	<u>23.00</u>
@	
@	
@	
TOTAL	<u>23.00</u>

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

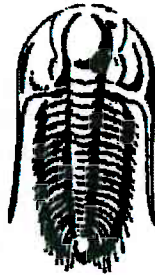
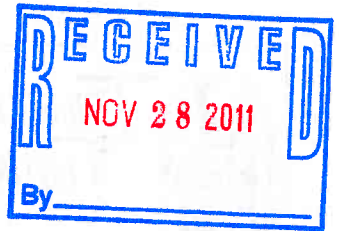
SALES TAX (if Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME E.L. Abercrombie

SIGNATURE E.L. Abercrombie



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **FIMLNatural Resources**

410 17th St.
Suite 900
Denver, CO 80202

ATTN: Gary Doke

Christy 5A-31-1831

18-31s-18w Scott, KS

Start Date: 2011.11.17 @ 20:33:00

End Date: 2011.11.18 @ 03:41:20

Job Ticket #: 45478 DST #: 1

FIMLNatural Resources
18-31s-18w Scott, KS
Christy 5A-31-1831
DST # 1
LKC JJK
2011.11.17

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

ORIGINAL

Printed: 2011.11.23 @ 15:56:28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FML Natural Resources

410 17th St.
Suite 900
Denver, CO 80202
ATTN: Gary Duke

18-31s-18w Scott, KS

Christy 5A-31-1831

Job Ticket: 45478 DST#: 1

Test Start: 2011.11.17 @ 20:33:00

GENERAL INFORMATION:

Formation: LKC 'J,K'
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:58:40
Time Test Ended: 03:41:20

Test Type: Conventional Bottom Hole (Initial)
Tester: Chuck Smith
Unit No: 37

Interval: 4220.00 ft (KB) To 4290.00 ft (KB) (TVD)
Total Depth: 4290.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2979.00 ft (KB)
2967.00 ft (CF)
KB to GR/CF: 12.00 ft

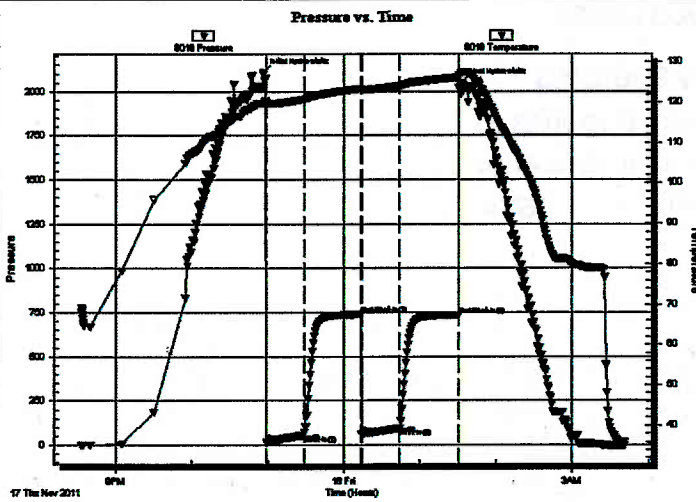
Serial #: 8018

Inside

Press@RunDepth: 92.04 psig @ 4224.00 ft (KB)
Start Date: 2011.11.17 End Date: 2011.11.18
Start Time: 20:33:02 End Time: 03:41:19

Capacity: 8000.00 psig
Last Calib.: 2011.11.18
Time On Btrm: 2011.11.17 @ 22:56:30
Time Off Btrm: 2011.11.18 @ 01:33:09

TEST COMMENT: 4 1/2" Blow.
No return.
3" Blow.
No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.07	119.78	Initial Hydro-static
3	14.43	119.09	Open To Flow (1)
33	56.17	120.73	Shut-In(1)
78	738.02	123.34	End Shut-In(1)
78	61.88	122.93	Open To Flow (2)
108	92.04	124.05	Shut-In(2)
154	735.48	126.13	End Shut-In(2)
157	2049.87	127.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
135.00	GGOCM 5g 10o 85m	0.66
45.00	CGO 5g 95o	0.22
0.00	45 Feet GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources

18-31s-18w Scott, KS

410 17th St.
Suite 900
Denver, CO 80202
ATTN: Gary Duke

Christy 5A-31-1831

Job Ticket: 45478

DST#: 1

Test Start: 2011.11.17 @ 20:33:00

Tool Information

Drill Pipe:	Length: 3838.00 ft	Diameter: 3.80 inches	Volume: 53.84 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: 22000.00 lb
Drill Collar:	Length: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume:	55.66 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4220.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	90.00 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			4201.00	
Shut In Tool	5.00			4206.00	
Hydraulic tool	5.00			4211.00	
Packer	5.00			4216.00	20.00 Bottom Of Top Packer
Packer	4.00			4220.00	
Stubb	1.00			4221.00	
Perforations	3.00			4224.00	
Recorder	0.00	8018	Inside	4224.00	
Recorder	0.00	6751	Outside	4224.00	
Change Over Sub	1.00			4225.00	
Drill Pipe	61.00			4286.00	
Change Over Sub	1.00			4287.00	
Bullnose	3.00			4290.00	70.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources

18-31s-18w Scott, KS

410 17th St.
Suite 900
Denver, CO 80202
ATTN: Gary Doke

Christy 5A-31-1831

Job Ticket: 45478

DST#: 1

Test Start: 2011.11.17 @ 20:33:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 9.57 in³
Resistivity: ohm.m
Salinity: 3000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 22 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
135.00	GGOCM 5g 10o 85m	0.664
45.00	CGO 5g 95o	0.221
0.00	45 Feet GIP	0.000

Total Length: 180.00 ft Total Volume: 0.885 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 20 @ 40 Degrees F = 22.

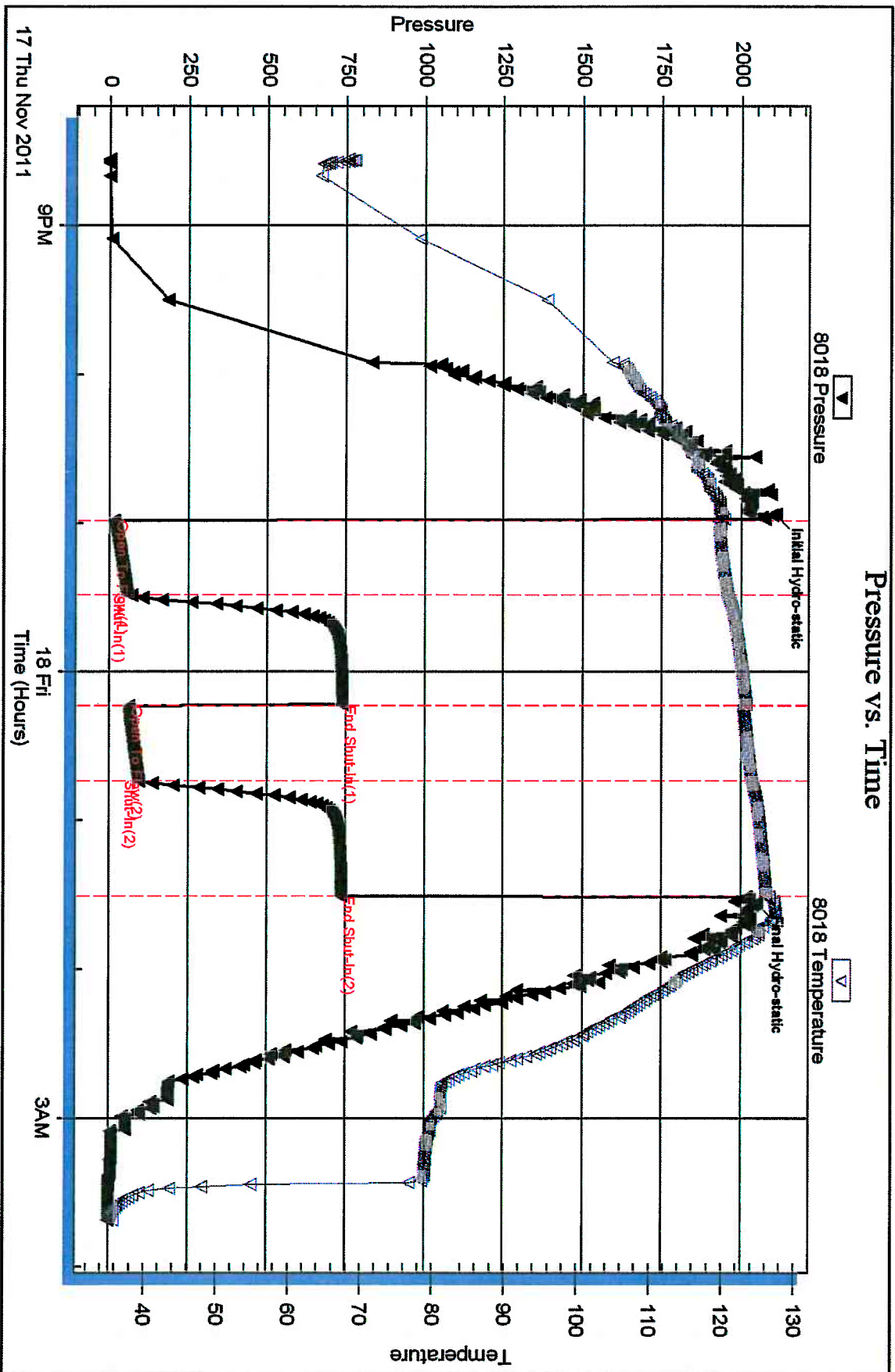
Serial #: 8018

Inside

FML/Natural Resources

Ortisy 5A-31-1831

DST Test Number: 1



TriChick Testing, Inc

Ref. No: 45478

Printed: 2011.11.23 @ 15:56:31



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **FIMLNatural Resources**

410 17th St.
Suite 900
Denver, CO 80202

ATTN: Gary Doke

Christy 5A-31-1831

18-31s-18w Scott, KS

Start Date: 2011.11.18 @ 17:32:00

End Date: 2011.11.18 @ 23:50:50

Job Ticket #: 45479 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.11.23 @ 15:56:45

FIMLNatural Resources

18-31s-18w Scott, KS

Christy 5A-31-1831

DST # 2

Marmaton A-B

2011.11.18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FML Natural Resources

410 17th St.
Suite 900
Denver, CO 80202
ATTN: Gary Duke

18-31s-18w Scott, KS

Christy 5A-31-1831

Job Ticket: 45479

DST#: 2

Test Start: 2011.11.18 @ 17:32:00

GENERAL INFORMATION:

Formation: **Marmaton A-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:39:30

Time Test Ended: 23:50:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 37

Interval: **4348.00 ft (KB) To 4385.00 ft (KB) (TVD)**

Total Depth: 4385.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2979.00 ft (KB)

2967.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8018

Inside

Press@RunDepth: 27.41 psig @ 4350.00 ft (KB)

Start Date: 2011.11.18

End Date: 2011.11.18

Start Time: 17:32:02

End Time: 23:50:49

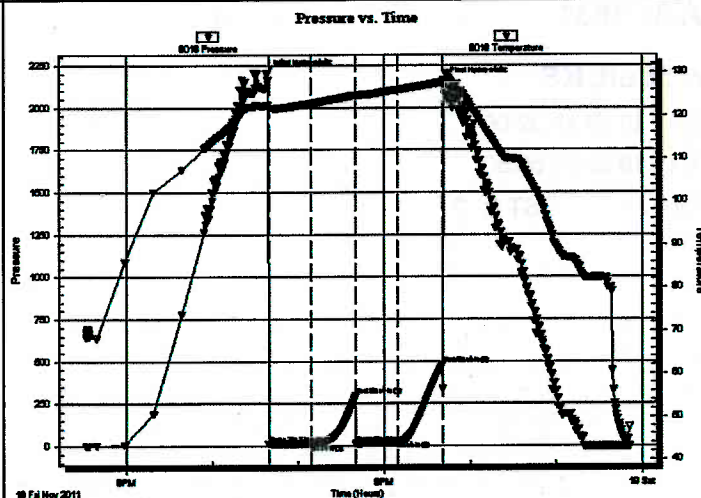
Capacity: 8000.00 psig

Last Calib.: 2011.11.18

Time On Btm: 2011.11.18 @ 19:38:00

Time Off Btm: 2011.11.18 @ 21:41:50

TEST COMMENT: Weak blow . died @ 4 min.
No return.
No blow , flushed tool, surge died @ 2 min.
No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2203.43	122.30	Initial Hydro-static
2	13.28	121.52	Open To Flow (1)
32	14.55	122.78	Shut-In(1)
62	295.85	124.69	End Shut-In(1)
62	14.06	124.47	Open To Flow (2)
92	27.41	125.94	Shut-In(2)
123	481.94	127.64	End Shut-In(2)
124	2150.96	128.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM 100m	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIMLNatural Resources

18-31s-18w Scott, KS

410 17th St.
Suite 900
Denver, CO 80202
ATTN: Gary Doke

Christy 5A-31-1831

Job Ticket: 45479

DST#: 2

Test Start: 2011.11.18 @ 17:32:00

Tool Information

Drill Pipe:	Length: 3963.00 ft	Diameter: 3.80 inches	Volume: 55.59 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: 22000.00 lb
Drill Collar:	Length: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 85000.00 lb
		Total Volume: 57.41 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4348.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	57.00 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			4329.00	
Shut In Tool	5.00			4334.00	
Hydraulic tool	5.00			4339.00	
Packer	5.00			4344.00	20.00 Bottom Of Top Packer
Packer	4.00			4348.00	
Stubb	1.00			4349.00	
Perforations	1.00			4350.00	
Recorder	0.00	8018	Inside	4350.00	
Recorder	0.00	6751	Outside	4350.00	
Change Over Sub	1.00			4351.00	
Drill Pipe	30.00			4381.00	
Change Over Sub	1.00			4382.00	
Bullnose	3.00			4385.00	37.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIM Natural Resources

18-31s-18w Scott, KS

410 17th St.
Suite 900
Denver, CO 80202
ATTN: Gary Doke

Christy 5A-31-1831

Job Ticket: 45479

DST#: 2

Test Start: 2011.11.18 @ 17:32:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 7.19 in³
Resistivity: ohm.m
Salinity: 5500.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OSM 100m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

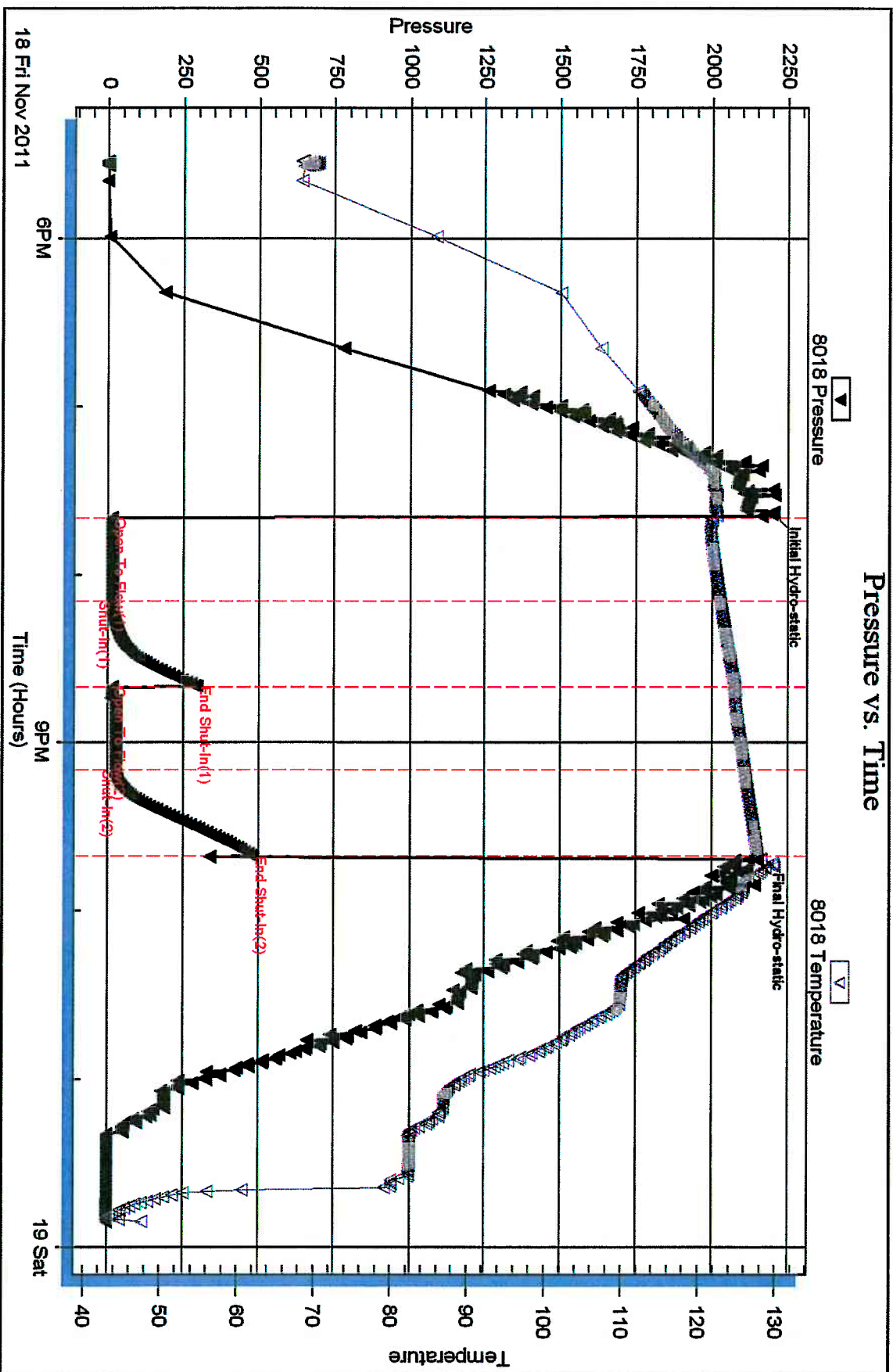
Serial #: 8018

Inside

FIM Natural Resources

Orisy 5A-31-1831

DST Test Number: 2

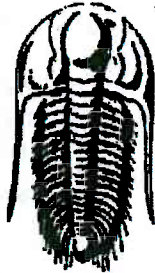


Thickrite Testing, Inc

Ref. No: 45479

Printed: 2011.11.23 @ 15:56:47





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Pioneer Resources**

80 Windmill Dr.
Phillipsburg, KS 67661

ATTN: Charlie Sturdavant

Dirks #4

7-12s-14w Logan,KS

Start Date: 2011.11.12 @ 00:01:15

End Date: 2011.11.12 @ 07:29:30

Job Ticket #: 45334 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.11.23 @ 15:57:19

Pioneer Resources
7-12s-14w Logan,KS
Dirks #4
DST # 1
Lansing
2011.11.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Pioneer Resources
80 Windmill Dr.
Phillipsburg, KS 67661
ATTN: Charlie Sturdavant

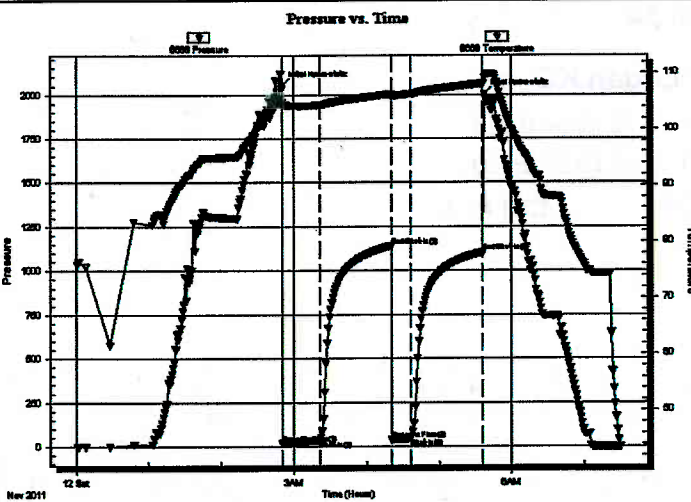
7-12s-14w Logan, KS
Dirks #4
Job Ticket: 45334 **DST#: 1**
Test Start: 2011.11.12 @ 00:01:15

GENERAL INFORMATION:

Formation: **Lansing**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 02:50:45
Time Test Ended: 07:29:30
Interval: **4040.00 ft (KB) To 4083.00 ft (KB) (TVD)**
Total Depth: **4043.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair
Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Mike Roberts**
Unit No: **48**
Reference Elevations: **2865.00 ft (KB)**
2860.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 6668 **Outside**
Press@RunDepth: **43.06 psig @ 4045.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2011.11.12** End Date: **2011.11.12** Last Calib.: **2011.11.13**
Start Time: **00:01:15** End Time: **07:29:30** Time On Btm: **2011.11.12 @ 02:50:30**
Time Off Btm: **2011.11.12 @ 05:37:15**

TEST COMMENT: IF: Built to 1" blow
IS: No return blow
FF: No blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2053.92	104.77	Initial Hydro-static
1	18.10	104.15	Open To Flow (1)
31	34.43	104.29	Shut-In(1)
91	1140.26	106.21	End Shut-In(1)
91	36.90	105.75	Open To Flow (2)
106	43.06	106.26	Shut-In(2)
166	1103.89	108.05	End Shut-In(2)
167	2001.33	109.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud with oil spots	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pioneer Resources

7-12s-14w Logan,KS

80 Windmill Dr.
Phillipsburg, KS 67661

Dirks #4

Job Ticket: 45334

DST#: 1

ATTN: Charlie Sturdavant

Test Start: 2011.11.12 @ 00:01:15

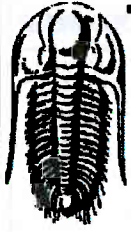
Tool Information

Drill Pipe:	Length: 3914.00 ft	Diameter: 3.80 inches	Volume: 54.90 bbl	Tool Weight: 1500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 55.50 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4040.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	71.00 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			4013.00	
Shut In Tool	5.00			4018.00	
Hydraulic tool	5.00			4023.00	
Jars	5.00			4028.00	
Safety Joint	2.00			4030.00	
Packer	5.00			4035.00	28.00 Bottom Of Top Packer
Packer	5.00			4040.00	
Stubb	1.00			4041.00	
Perforations	4.00			4045.00	
Recorder	0.00	8358	Inside	4045.00	
Recorder	0.00	6668	Outside	4045.00	
Change Over Sub	1.00			4046.00	
Drill Pipe	31.00			4077.00	
Change Over Sub	1.00			4078.00	
Bullnose	5.00			4083.00	43.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pioneer Resources
80 Windmill Dr.
Phillipsburg, KS 67661

7-12s-14w Logan, KS

Dirks #4

Job Ticket: 45334

DST#: 1

ATTN: Charlie Sturdavant

Test Start: 2011.11.12 @ 00:01:15

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 9.46 in³
Resistivity: 0.00 ohm.m
Salinity: 1400.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 0 deg API
Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud w ith oil spots	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

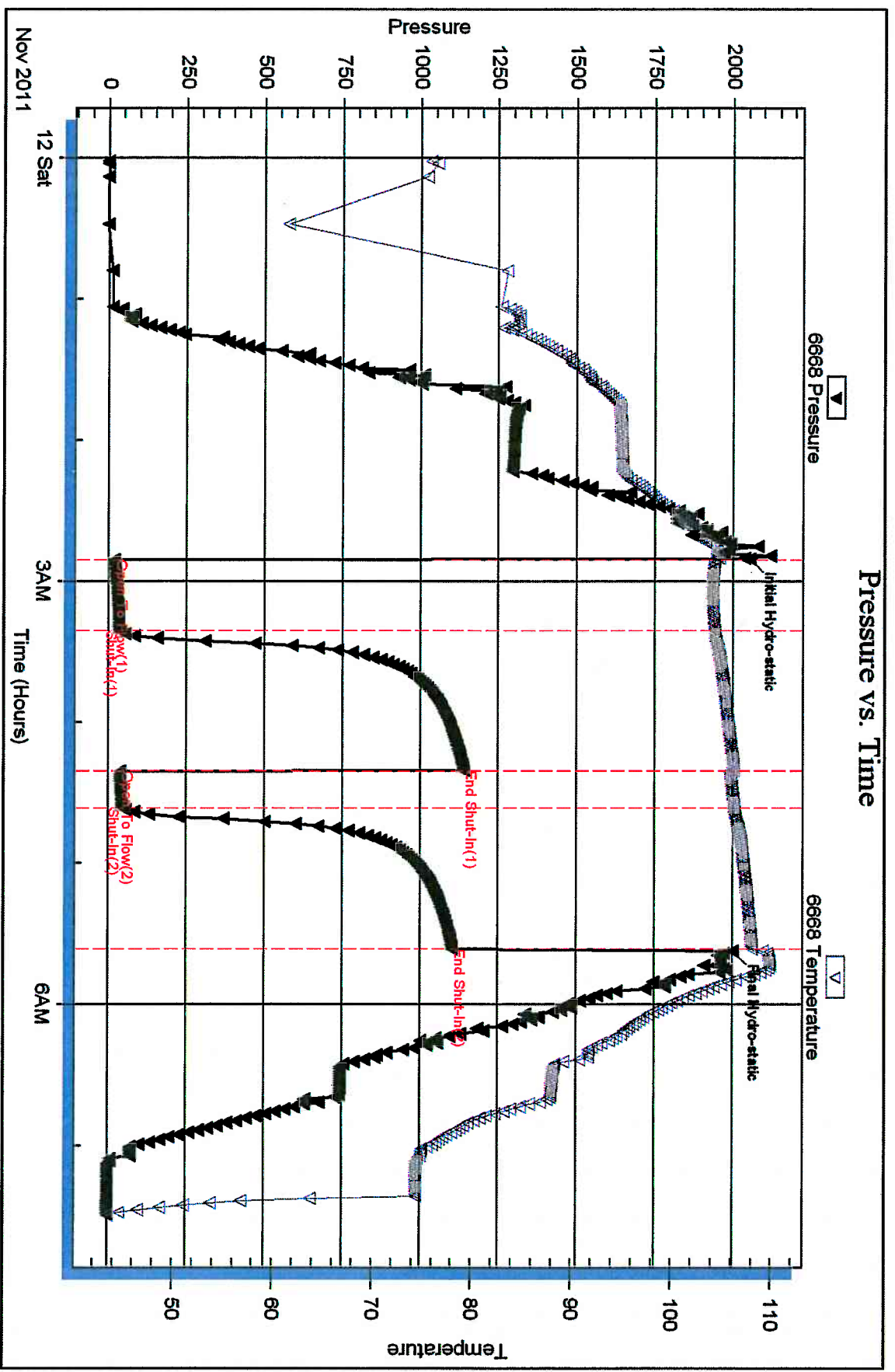
Recovery Comments:

Serial #: 6668

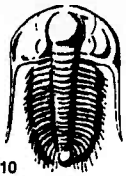
Outside Pioneer Resources

Drks #4

DST Test Number: 1







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
NOV 21 2011
BY:

Test Ticket

NO. 45478

Well Name & No. Christy 5A-3i-18.3i Test No. 1 Date 11-17-11
 Company FJML Nat. Res. Elevation 2979 KB 2967 GL
 Address 410 17th St. Ste. 900 Denver, CO 80202
 Co. Rep / Geo. Gary Duke / Josh Austin Rig H2#1
 Location: Sec. 31 Twp. 18s Rge. 31w Co. Scott State K5

Interval Tested 4220-4290 Zone Tested LKC 'J,K'
 Anchor Length 70 Drill Pipe Run 3838 Mud Wt. 9.3
 Top Packer Depth 4216 Drill Collars Run 370 Vis 50
 Bottom Packer Depth 4220 Wt. Pipe Run 0 WL 9.6
 Total Depth 4290 Chlorides 3000 ppm System LCM 2
 Blow Description 4 1/2" Blow.
No return.
3" Blow.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>45</u>	Feet of <u>C60</u>	<u>5</u> %gas	<u>95</u> %oil	%water	%mud
Rec <u>135</u>	Feet of <u>60CM</u>	<u>5</u> %gas	<u>10</u> %oil	%water	<u>85</u> %mud
Rec	Feet of <u>45' 6IP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 180 BHT 126 Gravity 22 API RW - @ ° F Chlorides - ppm

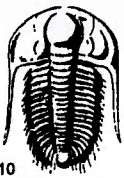
(A) Initial Hydrostatic <u>2109</u>	<input checked="" type="checkbox"/> Test <u>1225"</u>	T-On Location <u>20:08</u>
(B) First Initial Flow <u>14</u>	<input type="checkbox"/> Jars	T-Started <u>20:33</u>
(C) First Final Flow <u>56</u>	<input type="checkbox"/> Safety Joint	T-Open <u>22:59</u>
(D) Initial Shut-In <u>738</u>	<input checked="" type="checkbox"/> Circ Sub <u>50"</u>	T-Pulled <u>1:31</u>
(E) Second Initial Flow <u>62</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>3:41</u>
(F) Second Final Flow <u>92</u>	<input checked="" type="checkbox"/> Mileage <u>17RT 23.80</u>	Comments
(G) Final Shut-In <u>735</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>20.50</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>150"</u>
	<input type="checkbox"/> Day Standby	Total <u>1448.80</u>
	<input checked="" type="checkbox"/> Accessibility <u>150"</u>	MP/DST Disc't
	Sub Total <u>1298.80</u>	

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 45

Approved By [Signature]

Our Representative Chuck Smith

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
NOV 21 2011

Test Ticket

NO. 45479

4/10

BY: _____

Well Name & No. Christy 5A 31-1831 Test No. 2 Date 11-18-11
 Company FIML Nat. Res Elevation 2979 KB 2967 GL
 Address 410 17th St. Ste. 900 Denver, CO 80202
 Co. Rep / Geo. Gary Duke / Josh Austin Rig H2#1
 Location: Sec. 31 Twp. 18 Rge. 31 Co. Scott State KS

Interval Tested 4348-4385 Zone Tested Marathon 'A-B'
 Anchor Length 37 Drill Pipe Run 3963 Mud Wt. 9.4
 Top Packer Depth 4344 Drill Collars Run 370 Vis 50
 Bottom Packer Depth 4348 Wt. Pipe Run 0 WL 7.2
 Total Depth 4385 Chlorides 5500 ppm System LCM 2

Blow Description Weak blow, died @ 4 min.
No return.
No blow, flushed tool, surge died @ 2 min.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>15</u>	Feet of <u>OSM</u>				<u>100</u> %mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 15 BHT _____ Gravity — API RW _____ @ _____ °F Chlorides — ppm

(A) Initial Hydrostatic <u>2203</u>	<input checked="" type="checkbox"/> Test <u>1225</u>	T-On Location <u>17:00</u>
(B) First Initial Flow <u>13</u>	<input type="checkbox"/> Jars _____	T-Started <u>17:32</u>
(C) First Final Flow <u>15</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>19:40</u>
(D) Initial Shut-In <u>296</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>21:41</u>
(E) Second Initial Flow <u>14</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>23:51</u>
(F) Second Final Flow <u>27</u>	<input checked="" type="checkbox"/> Mileage <u>17RT 23.80</u>	Comments _____
(G) Final Shut-In <u>482</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2151</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input checked="" type="checkbox"/> Ruined Packer <u>320</u>
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>470</u>
	<input type="checkbox"/> Day Standby _____	Total _____
	<input checked="" type="checkbox"/> Accessibility <u>150</u>	MP/DST Disc't _____
	Sub Total <u>1248.80</u>	

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Approved By [Signature] Our Representative Chuck Smith

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