

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

10/7/12

Operator: License # 33476
 Name: FIML Natural Resources, LLC
 Address: 410 17th Street Ste. 900
 City/State/Zip: Denver, CO. 80202
 Purchaser: NCRA
 Operator Contact Person: Cassandra Parks
 Phone: (303) 893-5090
 Contractor: Name: Murfin Drilling Company
 License: 30606
 Wellsite Geologist: _____
 Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, 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./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

<u>06/24/2010</u>	<u>07/04/2010</u>	<u>09/13/2010</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

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OCT 07 2010
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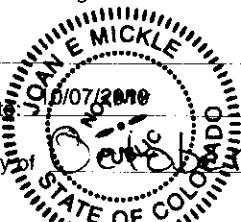
API No. 15 - 171-20760-00-00
 County: Scott
 NE NW SE SE Sec. 17 Twp. 19 S. R. 31 East West
1,155 feet from N (circle one) Line of Section
955 feet from W (circle one) Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 (circle one) NE NW SW
 Lease Name: Smith Well #: 16B-17-1931
 Field Name: Unknown
 Producing Formation: Lansing
 Elevation: Ground: 2982' Kelly Bushing: 2994'
 Total Depth: 4779' Plug Back Total Depth: CIBP @ 4230'
 Amount of Surface Pipe Set and Cemented at 9 jts @ 381 Feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set DV tool at 3028 Feet
 If Alternate II completion, cement circulated from 3028
 feet depth to surface w/ 515 sx cmt.

Drilling Fluid Management Plan AK ILS 10-21-10
 (Data must be collected from the Reserve Pit)
 Chloride content 12,500 ppm Fluid volume 850 bbls
 Dewatering method used Evaporation/backfill
 Location of fluid disposal if hauled offsite: _____
 Operator Name: _____
 Lease Name: _____ License No.: _____
 Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
 County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: [Signature]
 Title: Regulatory Specialist Date: 10/07/2010
 Subscribed and sworn to before me this 7th day of October
 2010.
 Notary Public: Joan E. Mickle
 Date Commission Expires: 10/17/2012



KCC Office Use ONLY

Letter of Confidentiality Received 10/7/10 - 10/7/12

If Denied, Yes No Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

RECEIVED
OCT 12 2010

KCC WICHITA

Operator Name: FIML Natural Resources, LLC Lease Name: Smith Well #: 16B-17-1931
 Sec. 17 Twp. 19 S. R. 31 East West County: Scott

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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Topeka	3656'	-662
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3903'	-909
List All E. Logs Run:		Lansing	3942'	-948
		Marmaton	4359'	-1365
		Cherokee	4511'	-1517
		Mississippi	4573'	-1579

Spectral Density/Dual Spaced Neutron; Array Compensated True Resistivity; Microlog

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	12-1/4"	8-5/8"	23	397'	Common	240	2% gel 3% CaCl2
Production	7-7/8"	5-1/2"	15.5	4781'	ASC	370	.25 pps flo 5 pps gil
				DV tool @ 3028'	lighweight	515	.25 pps flo 5 pps gil

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	Mouse and rat hole	Lightweight	50	.25 pps flocele, 5 pps gilsonite

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
	2	4626-29' after squeeze 4627-4630' (squeezed off)		Acidize w/ 500 gal 15% MCA; Acidize w/ 500 gal 15% INS	
1	4612-14' & 4616-19' Reperfed after squeeze		Acidize w/ 500 gal 15% MCA; Acidize w/ 500 gal 15% INS		4614-19'
	4612-14' 4616-19', 4627-4630' (squeezed off)		Squeezed with 150 sxs common, reperfed, then squeezed w/ 150 sxs common		4612-4630'
4	4244-46', 4287-89', 4385-4387' CIBP @ 4230'		Acidized w/ 1500 gal 15% MCA		4244-4387'
4	4184-4188'		Acidized w/ 500 gal 15% MCA		4184-88'

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		2-7/8"	4227'			
Date of First, Resumerd Production, SWD or Enhr. 09/23/2010			Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	
	104		0			

Disposition of Gas: Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

METHOD OF COMPLETION: _____

Production Interval: _____

(If vented, Submit ACO-18.)



PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887
 Fax: (785) 483-5566

2347

RECEIVED
 JUL 02 2010

INVOICE

Invoice Number: 123265
 Invoice Date: Jun 25, 2010
 Page: 1

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

KCC
 OCT 07 2010
 CONFIDENTIAL

Customer ID	Well Name/ID or Customer P.O.	Payment Terms	
FIML	Smith #16B-17-1831	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jun 25, 2010	7/25/10

Quantity	Item	Description	Unit Price	Amount
240.00	MAT	Class A Common	15.45	3,708.00
4.00	MAT	Gel	20.80	83.20
9.00	MAT	Chloride	58.20	523.80
253.00	SER	Handling	2.40	607.20
55.00	SER	Mileage 253 sx @.10 per sk per mi	25.30	1,391.50
1.00	SER	Surface	1,018.00	1,018.00
96.00	SER	Extra Footage	0.85	81.60
55.00	SER	Pump Truck Mileage	7.00	385.00
1.00	EQP	8.5/8 Guide Shoe	258.00	258.00
1.00	EQP	8.5/8 AFU Insert	158.00	158.00
4.00	EQP	8.5/8 Centralizers	49.00	196.00
1.00	EQP	8.5/8 Surface Plug	68.00	68.00

D10050
 8100-145
 [Signature]

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 KCC WICHITA

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

1695.66

ONLY IF PAID ON OR BEFORE

10/20/2010

Subtotal	8,478.30
Sales Tax	314.69
Total Invoice Amount	8,792.99
Payment/Credit Applied	
TOTAL	8,792.99

- 1695.66

7097.33

ALLIED CEMENTING CO., LLC. 039323

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

SERVICE POINT:
Oakley

DATE <u>6-25-10</u>		SEC <u>17</u>	TWP <u>19s</u>	RANGE <u>3/W</u>	CALLED OUT	ON LOCATION	JOB START <u>9:00 AM</u>	JOB FINISH <u>9:30 AM</u>
LEASE <u>Smith</u>		WELL # <u>LB-17-801</u>			LOCATION <u>Scott city</u>		COUNTY <u>Scott</u>	STATE <u>KS</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)			<u>1s 1w Ninto</u>			KCC		

CONTRACTOR Murfin Drilling Rig 21

TYPE OF JOB Surface

OWNER same

HOLE SIZE 12 1/4 T.D. 399

CASING SIZE 8 5/8 DEPTH 396.81

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT 42.23

CEMENT LEFT IN CSG. 42.23

PERFS. _____

DISPLACEMENT 22.58 BBL

EQUIPMENT _____

PUMP TRUCK # 386-281 CEMENTER Andrew

HELPER Larene

BULK TRUCK # 377 DRIVER Jerry

DRIVER _____

OCT 07 2010

CONFIDENTIAL

CEMENT

AMOUNT ORDERED 240 sbs com

390 cc 296 gal

COMMON 240 sbs @ 15.45 3708.00

POZMIX _____ @ _____

GEL 4 sbs @ 20.80 83.20

CHLORIDE 9 sbs @ 58.20 523.80

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ **RECEIVED**

_____ @ **OCT 12 2010**

_____ @ **KCC WICHITA**

_____ @ _____

HANDLING 253 sbs @ 2.40 607.20

MILEAGE 10 1/4 sbs/mile 1391.50

TOTAL 6313.70

REMARKS:

Cement did circulate

Approx 2 BBL TO pit.

thanks you

CHARGE TO: FIML

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 Dole 620-640-5718

SIGNATURE [Signature]

SERVICE

DEPTH OF JOB 396.81'

PUMP TRUCK CHARGE 1018.00

EXTRA FOOTAGE 96' @ .85 81.60

MILEAGE 55 miles @ 7.00 385.00

MANIFOLD _____ @ _____

_____ @ _____

_____ @ _____

TOTAL 1484.60

PLUG & FLOAT EQUIPMENT

8 5/8

1 Guide Shoe @ 258.00

1 AFU INSERT @ 158.00

4 Centralizers @ 49.00 196.00

1 surface plug @ 68.00

_____ @ _____

TOTAL 680.00

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS



PO BOX 31 Russell, KS 67665

RECEIVED
JUL 15 2010

2347

INVOICE

Invoice Number: 123414

Invoice Date: Jul 5, 2010

Page: 1

Voice: (785) 483-3887
Fax: (785) 483-5566

Bill To:
FIML Natural Resources LLC
410 I7th St., #900
Denver, CO 80202

KCC
OCT 07 2010
CONFIDENTIAL

Customer ID	Well Name# of Customer P.O.	Payment Terms	
FIML	Smith #16B-17-1931	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Jul 5, 2010	8/4/10

Quantity	Item	Description	Unit Price	Amount
7.00	MAT	Class A Common	20.80	145.60
370.00	MAT	ASC Class A	18.60	6,882.00
34.00	MAT	Salt	23.95	814.30
1,850.00	MAT	Gilsonite	0.89	1,646.50
92.00	MAT	Flo Seal	2.50	230.00
500.00	MAT	WFR-2	1.27	635.00
472.00	SER	Handling	2.40	1,132.80
55.00	SER	Mileage 472 sx @ .10 per sk per mi	47.20	2,596.00
1.00	SER	Production - Bottom Stage	2,185.00	2,185.00
55.00	SER	Pump truck Mileage	7.00	385.00
1.00	EQP	5.5 Sure Seal Float Shoe	349.00	349.00
1.00	EQP	5.5 Sure Seal Float Collar	418.00	418.00
1.00	EQP	5.5 Lock Ring	29.00	29.00
2.00	EQP	5.5 Basket	161.00	322.00
25.00	EQP	5.5 Centralizer	35.00	875.00
1.00	EQP	5.5 D V Tool	2,832.00	2,832.00

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KCC WICHITA

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

\$ 4,295.44

ONLY IF PAID ON OR BEFORE
Jul 30, 2010

Subtotal	21,477.20
Sales Tax	1,108.02
Total Invoice Amount	22,585.22
Payment/Credit Applied	
TOTAL	22,585.22

8200-118
Adam Q. Blum
"1st Stage"

- 4295.44
18,289.78
D10050

ALLIED CEMENTING CO., LLC. 039030

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

KCC
OCT 07 2010

SERVICE POINT: Oakley

DATE <u>7-5-10</u>	SEC. <u>17</u>	TWP. <u>19</u>	RANGE <u>31</u>	CONFIDENTIAL	ON LOCATION	JOB START <u>2:00pm</u>	JOB FINISH <u>2:30pm</u>
LEASE <u>Smith</u>	WELL # <u>16B</u>	LOCATION <u>scott city</u>			<u>8E 53 1W</u>	COUNTY <u>scott</u>	STATE <u>ks</u>
OLD OR <u>NEW</u> (Circle one)		<u>15 1E Ninto</u>					

CONTRACTOR Murfin Drilling Rig 21 OWNER same
 TYPE OF JOB Production (bottom stage)
 HOLE SIZE 7 7/8 T.D. 4785
 CASING SIZE 5 1/2 DEPTH 4781.43
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL OV DEPTH 3022.84
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 21.02'
 CEMENT LEFT IN CSG. 21.02'
 PERFS. _____
 DISPLACEMENT 180900L 41.23 72.06
 EQUIPMENT water mud

CEMENT	
AMOUNT ORDERED	<u>370 sks ASC 2% gel</u>
	<u>10% salt 5% Gilsonite 1/4 flo-seal</u>
	<u>500 gal WFR-2</u>
COMMON	@ _____
POZMIX	@ _____
GEL	<u>7 sks @ 20.80 145.60</u>
CHLORIDE	@ _____
ASC	<u>370 sks @ 18.60 6882.00</u>
	@ _____
	@ _____
<u>salt</u>	<u>34 sks @ 23.95 814.30</u>
	@ _____
<u>Gilsonite</u>	<u>1850# @ .89 1646.50</u>
	@ _____
<u>Flo-seal</u>	<u>92# @ 2.50 230.00</u>
<u>WFR-2</u>	<u>500gal @ 1.27 635.00</u>
HANDLING	<u>472 sks @ 2.90 1132.80</u>
MILEAGE	<u>10¢ sk/mile 2596.00</u>
RECEIVED	
TOTAL <u>14082.20</u>	

PUMP TRUCK CEMENTER Andrew
 # 386-281 HELPER Larene
 BULK TRUCK
 # 323 DRIVER Darrin
 BULK TRUCK
 # 394 DRIVER Wil
377 Serry

REMARKS:

Pump 500gal WFR-2 mix 370 sks
ASC wash pump and lines clean
Displace plug 900# lift
1500# land plug, Plug landed
Float held, drop opening dart
open DV tool 900#.

thank you

CHARGE TO: F I M L
 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 Duke 620 645718
 SIGNATURE [Signature]

OCT 12 2010

SERVICE

KCC WICHITA

DEPTH OF JOB	<u>4781.43</u>
PUMP TRUCK CHARGE	<u>2185.00</u>
EXTRA FOOTAGE	@ _____
MILEAGE	<u>55 miles @ 7.00 385.00</u>
MANIFOLD	@ _____
	@ _____
	@ _____
TOTAL <u>2570.00</u>	

5/2

PLUG & FLOAT EQUIPMENT

<u>1 sure seal float shoe</u>	@	<u>349.00</u>
<u>1 sure seal float collar</u>	@	<u>418.00</u>
<u>1 lock ring</u>	@	<u>29.00</u>
<u>2 baskets</u>	@	<u>161.00 322.00</u>
<u>25 centralizers</u>	@	<u>35.00 875.00</u>
<u>1 OV TOOL</u>		<u>282.00</u>
TOTAL		<u>1925.00</u>
TOTAL		<u>4825.00</u>

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



PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887
 Fax: (785) 483-5566

2347

RECEIVED
 JUL 15 2010

INVOICE

Invoice Number: 123415
 Invoice Date: Jul 5, 2010
 Page: 1

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

KCC
 OCT 07 2010
 CONFIDENTIAL

Customer ID	Well Name / or Customer P/O	Payment Terms
FIML	Smith #16B-17-1931	Net 30 Days
Job Location	Camp Location	Service Date
KS1-02	Oakley	Jul 5, 2010
		Due Date
		8/4/10

Quantity	Item	Description	Unit Price	Amount
565.00	MAT	Lightweight Class A	14.05	7,938.25
2,825.00	MAT	Gilsonite	0.89	2,514.25
141.00	MAT	Flo Seal	2.50	352.50
665.00	SER	Handling	2.40	1,596.00
55.00	SER	Mileage 665 sx @ .10 per sk per mi	66.50	3,657.50
1.00	SER	Production - Top Stage	1,185.00	1,185.00

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Subtotal	17,243.50
Sales Tax	788.77
Total Invoice Amount	18,032.27
Payment/Credit Applied	
TOTAL	18,032.27

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

\$ 3,448.70

ONLY IF PAID ON OR BEFORE
 Jul 30, 2010

8200-118
 Adam D. Blum
 "2nd stage"

- 3448.70
 14,583.57

D10050

ALLIED CEMENTING CO., LLC. 039031

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

KCC
OCT 07 2010

SERVICE POINT:

Oakley

DATE <i>7-5-10</i>	SEC. <i>17</i>	TWP. <i>19</i>	RANGE <i>31</i>	CALLER <i>CONFIDENTIAL</i>	LOCATION	JOB START <i>7:30pm</i>	JOB FINISH <i>8:00pm</i>
LEASE <i>Smith</i>	WELL # <i>16B</i>	LOCATION <i>scott city 8E 5s 1w 1s</i>			COUNTY <i>Scott</i>	STATE <i>KS</i>	
OLD OR <u>NEW</u> (Circle one)			<i>1E Minto</i>				

CONTRACTOR *Murfin Drilling Rig 21*

TYPE OF JOB *Production (top stage)*

HOLE SIZE *2 7/8* T.D. *4285*

CASING SIZE *5 1/2* DEPTH *4281.43*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL *DV TOOL* DEPTH *3022.74*

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT *21.02'*

CEMENT LEFT IN CSG. *21.02'*

PERFS.

DISPLACEMENT *72 BOL*

OWNER *same*

CEMENT

AMOUNT ORDERED *565 sks Lite*

5# Gilsonite 1/4" Flo-seal

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	@		
<i>Lite</i>	<i>565 sks</i>	@ <i>14.05</i>	<i>7938.25</i>
<i>Gilsonite</i>	<i>2825 #</i>	@ <i>.89</i>	<i>2514.25</i>
<i>Flo-seal</i>	<i>141 #</i>	@ <i>2.50</i>	<i>352.50</i>
	@		
	@		
	@		
HANDLING <i>615 sks</i>	@ <i>2.40</i>		<i>1596.00</i>
MILEAGE <i>104 sk/mile</i>			<i>3657.50</i>
RECEIVED		TOTAL	<i>16058.5</i>

EQUIPMENT

PUMP TRUCK CEMENTER *Andrew*

386-281 HELPER *Lorene*

BULK TRUCK

327 DRIVER *Jerry*

BULK TRUCK

394 DRIVER *Wil*

REMARKS:

*Plug m H plug R H start mixing
Lifted down 5 1/2 casing mix 515 sks
wash pump and lines displace
plug 1000' lift 1800' land
plug plug landed TOOL closed
Cement circulated*

OCT 12 2010

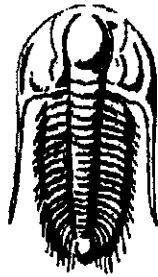
SERVICE

KCC WICHITA

DEPTH OF JOB *3022.74'*

PUMP TRUCK CHARGE *1185.00*

EXTRA FOOTAGE @



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th St ste.900
Denver, CO 80202

ATTN: Gary Doke- Jim Musgro

17-19-31 Scott, KS

Smith 16B-17-1931

Start Date: 2010.06.30 @ 11:34:48

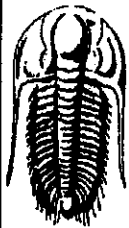
End Date: 2010.06.30 @ 20:00:42

Job Ticket #: 39086 DST #: 1

**KCC
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Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

**RECEIVED
OCT 12 2010
KCC WICHITA**



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources

410 17th St ste.900
Denver, CO 80202

ATTN: Gary Doke- Jim Musgro Denver, CO 80202

Smith 16B-17-1931

17-19-31 Scott, KS

Job Ticket: 39086

DST#: 1

Test Start: 2010.06.30 @ 11:34:48

GENERAL INFORMATION:

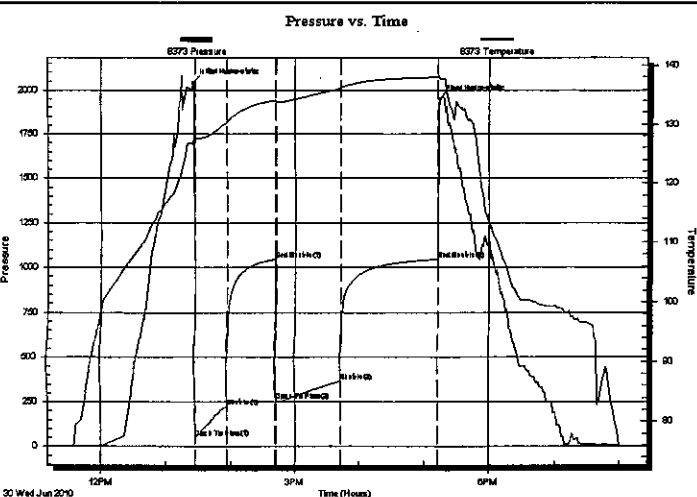
Formation: **Lansing Lower H**
 Deviated: **No Whipstock:** ft (KB)
 Test Type: **Conventional Bottom Hole**
 Time Tool Opened: **13:26:58**
 Tester: **Brandon Turley**
 Time Test Ended: **20:00:42**
 Unit No: **35**
 Interval: **4168.00 ft (KB) To 4210.00 ft (KB) (TVD)**
 Reference Elevations: **2992.00 ft (KB)**
 Total Depth: **4210.00 ft (KB) (TVD)**
2982.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 KB to GR/CF: **10.00 ft**

Serial #: 8373

Inside

Press@RunDepth: **365.18 psig @ 4169.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.06.30** End Date: **2010.06.30** Last Calib.: **2010.06.30**
 Start Time: **11:34:48** End Time: **20:00:42** Time On Btm: **2010.06.30 @ 13:25:28**
 Time Off Btm: **2010.06.30 @ 17:13:12**

TEST COMMENT: IF: 1/4 blow BOB in 7 min.
 IS: Surface blow BOB in 20 min.
 FF: 1/4 blow BOB in 9 min.
 FS: Surface blow built to 3 in 90 min.



PRESSURE SUMMARY

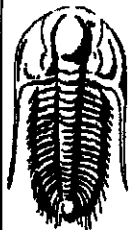
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2040.93	126.59	Initial Hydro-static
2	50.99	127.45	Open To Flow (1)
32	223.63	130.29	Shut-In (1)
77	1044.88	134.09	End Shut-In (1)
77	256.71	133.81	Open To Flow (2)
138	365.18	136.09	Shut-In (2)
227	1044.08	138.00	End Shut-In (2)
228	1952.52	138.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	gocm 20%g 30%o 70%m	0.30
310.00	mcgo 20%g 70%o 10%m	1.52
248.00	mcgo 20%g 60%o 20%m	1.93
315.00	go 50%g 50%o	4.42

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources

Smith 16B-17-1931

410 17th St ste.900
Denver, CO 80202

17-19-31 Scott, KS

Job Ticket: 39086

DST#: 1

ATTN: Gary Doke- Jim Musgro Denver, CO 80202

Test Start: 2010.06.30 @ 11:34:48

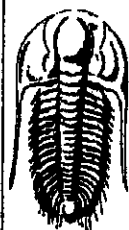
Tool Information

Drill Pipe:	Length: 3615.00 ft	Diameter: 3.80 inches	Volume: 50.71 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: 30000.00 lb
Drill Collar:	Length: 542.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume:	53.38 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4168.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4149.00	
Shut In Tool	5.00			4154.00	
Hydraulic tool	5.00			4159.00	
Packer	5.00			4164.00	20.00 Bottom Of Top Packer
Packer	4.00			4168.00	
Stubb	1.00			4169.00	
Recorder	0.00	8373	Inside	4169.00	
Recorder	0.00	8289	Outside	4169.00	
Perforations	4.00			4173.00	
Change Over Sub	1.00			4174.00	
Drill Pipe	31.00			4205.00	
Change Over Sub	1.00			4206.00	
Bullnose	5.00			4211.00	43.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources

Smith 16B-17-1931

410 17th St ste.900
Denver, CO 80202

17-19-31 Scott, KS

Job Ticket: 39086

DST#: 1

ATTN: Gary Doke- Jim Musgro Denver, CO 80202

Test Start: 2010.06.30 @ 11:34:48

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
62.00	gocm 20%g 30%o 70%m	0.305
310.00	mcgo 20%g 70%o 10%m	1.525
248.00	mcgo 20%g 60%o 20%m	1.930
315.00	go 50%g 50%o	4.419

Total Length: 935.00 ft

Total Volume: 8.179 bbf

Num Fluid Samples: 0

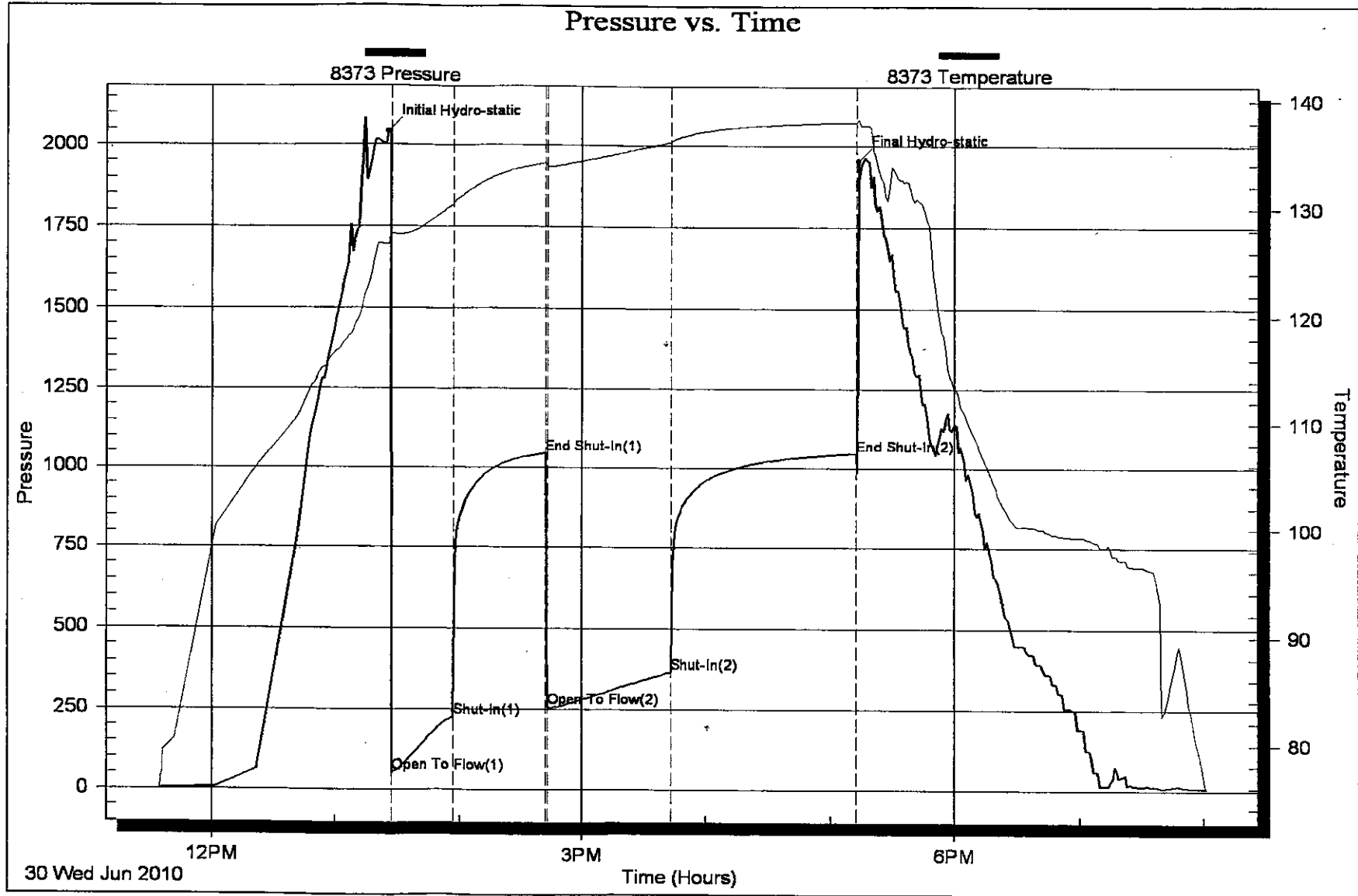
Num Gas Bombs: 0

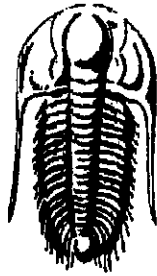
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 32@90=29





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th St ste.900
Denver, CO 80202

ATTN: Gary Doke- Jim Musgro

17-19-31 Scott, KS

Smith 16B-17-1931

Start Date: 2010.07.01 @ 11:58:21

End Date: 2010.07.01 @ 19:05:00

Job Ticket #: 39087 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

FIML Natural Resources

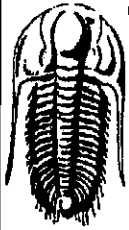
Smith 16B-17-1931

17-19-31 Scott, KS

DST # 2

Lansing K

2010.07.01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources

Smith 16B-17-1931

410 17th St ste.900
Denver, CO 80202

17-19-31 Scott, KS

Job Ticket: 39087

DST#: 2

ATTN: Gary Doke- Jim Musgro Denver, CO 80202

Test Start: 2010.07.01 @ 11:58:21

GENERAL INFORMATION:

Formation: **Lansing K**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 13:47:16
Time Test Ended: 19:05:00

Test Type: **Conventional Bottom Hole**
Tester: **Brandon Turley**
Unit No: **35**

Interval: **4290.00 ft (KB) To 4316.00 ft (KB) (TVD)**
Total Depth: **4316.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2992.00 ft (KB)**
2982.00 ft (CF)
KB to GR/CF: **10.00 ft**

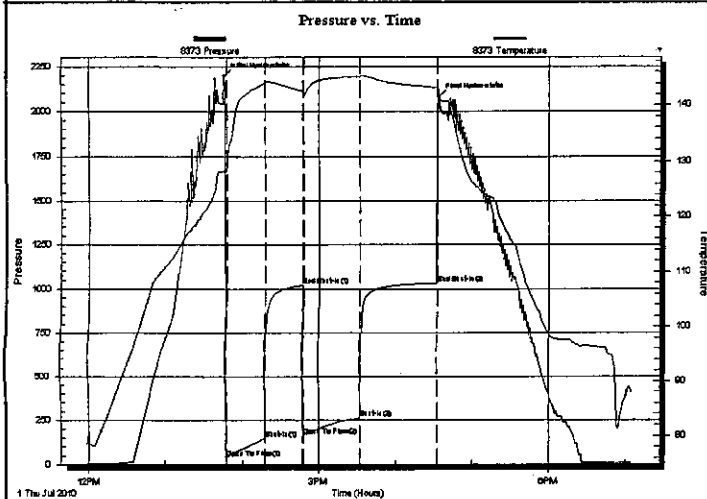
Serial #: 8373

Inside

Press@RunDepth: **262.09 psig @ 4291.00 ft (KB)**
Start Date: **2010.07.01** End Date: **2010.07.01**
Start Time: **11:58:21** End Time: **19:05:00**

Capacity: **8000.00 psig**
Last Calib.: **2010.07.01**
Time On Btm: **2010.07.01 @ 13:45:31**
Time Off Btm: **2010.07.01 @ 16:33:30**

TEST COMMENT: IF: 1/4 blow built to 3 in 30 min.
IS: No return.
FF: BOB in 28 min.
FS: Surface blow built to 2 in 60 min.



PRESSURE SUMMARY

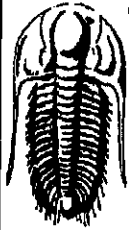
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2195.71	128.27	Initial Hydro-static
2	38.80	128.49	Open To Flow (1)
32	146.24	144.05	Shut-In(1)
62	1019.90	142.55	End Shut-In(1)
62	160.37	141.61	Open To Flow (2)
107	262.09	145.22	Shut-In(2)
167	1032.77	143.21	End Shut-In(2)
168	2078.07	142.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw trace of oil 95%w 5%m	0.61
186.00	ocmw 5%o 75%w 20%m	0.91
186.00	ocmw 5%o 55%w 40%m	0.91
93.00	go 10%g 90%o	0.89
0.00	93 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources

Smith 16B-17-1931

410 17th St ste.900
Denver, CO 80202

17-19-31 Scott, KS

Job Ticket: 39087

DST#: 2

ATTN: Gary Doke- Jim Musgro Denver, CO 80202

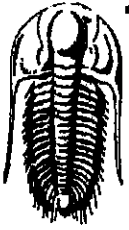
Test Start: 2010.07.01 @ 11:58:21

Tool Information

Drill Pipe:	Length: 3740.00 ft	Diameter: 3.80 inches	Volume: 52.46 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: 30000.00 lb
Drill Collar:	Length: 542.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 90000.00 lb
		<u>Total Volume:</u>	<u>55.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4290.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4271.00	
Shut in Tool	5.00			4276.00	
Hydraulic tool	5.00			4281.00	
Packer	5.00			4286.00	20.00 Bottom Of Top Packer
Packer	4.00			4290.00	
Stubb	1.00			4291.00	
Recorder	0.00	8373	Inside	4291.00	
Recorder	0.00	8289	Outside	4291.00	
Perforations	20.00			4311.00	
Bullnose	5.00			4316.00	26.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources

Smith 16B-17-1931

410 17th St ste.900
Denver, CO 80202

17-19-31 Scott, KS

Job Ticket: 39087

DST#: 2

ATTN: Gary Doke- Jim MusgroDenver, CO 80202

Test Start: 2010.07.01 @ 11:58:21

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

38000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
124.00	mcw trace of oil 95%w 5%m	0.610
186.00	ocmw 5%o 75%w 20%m	0.915
186.00	ocmw 5%o 55%w 40%m	0.915
93.00	go 10%g 90%o	0.886
0.00	93 GIP	0.000

Total Length: 589.00 ft

Total Volume: 3.326 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

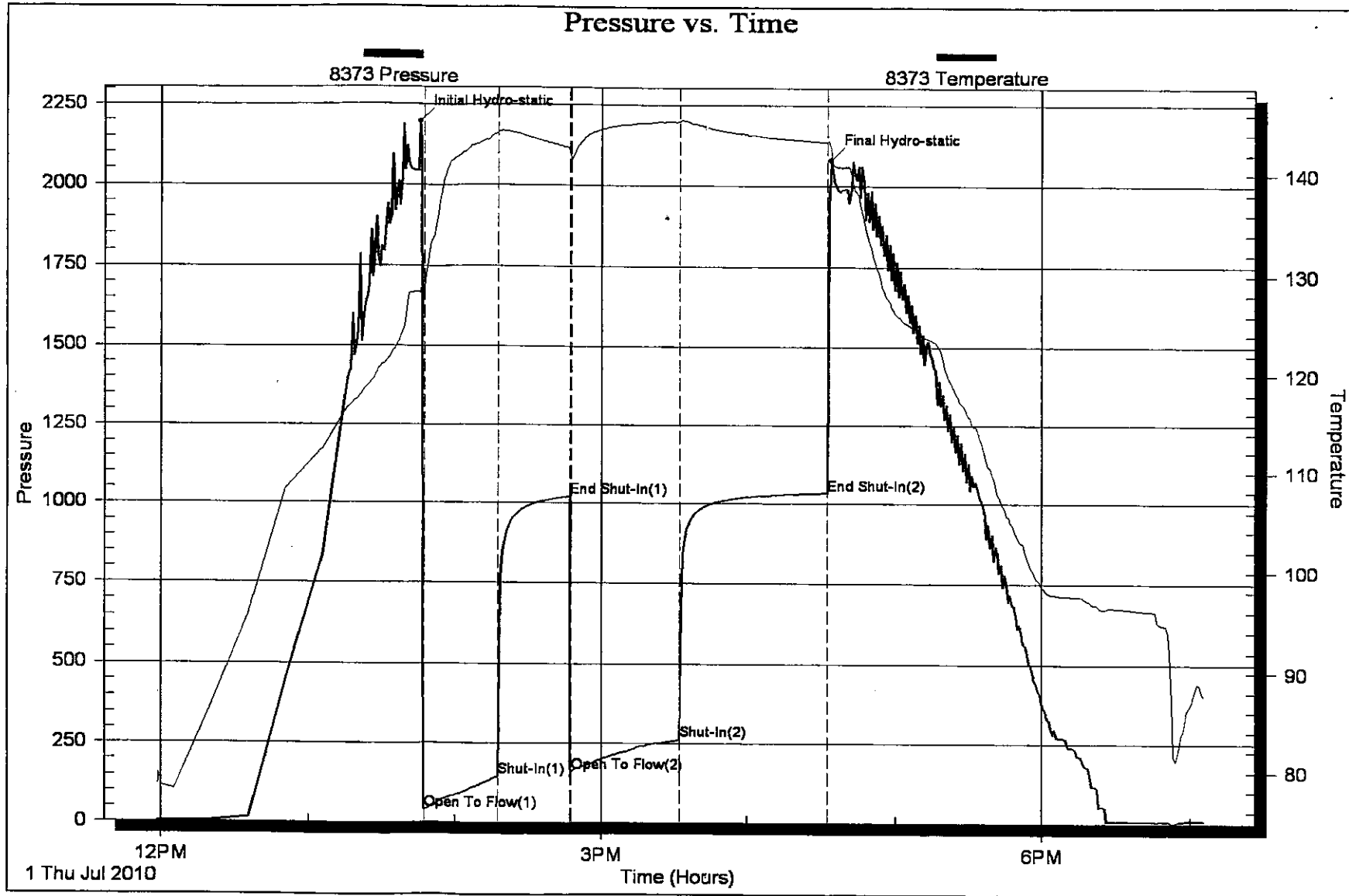
Serial #:

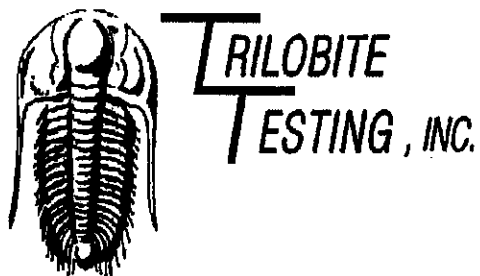
Laboratory Name:

Laboratory Location:

Recovery Comments: 30@90=27

.15@89=38000





DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th St ste.900
Denver, CO 80202

ATTN: Gary Doke- Jim Musgro

17-19-31 Scott, KS

Smith 16B-17-1931

Start Date: 2010.07.02 @ 10:16:39

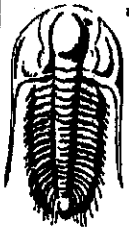
End Date: 2010.07.02 @ 18:27:48

Job Ticket #: 39088 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources

Smith 16B-17-1931

410 17th St ste.900
Denver, CO 80202

17-19-31 Scott, KS

Job Ticket: 39088 DST#: 3

ATTN: Gary Doke- Jim Musgro Denver, CO 80202 Test Start: 2010.07.02 @ 10:16:39

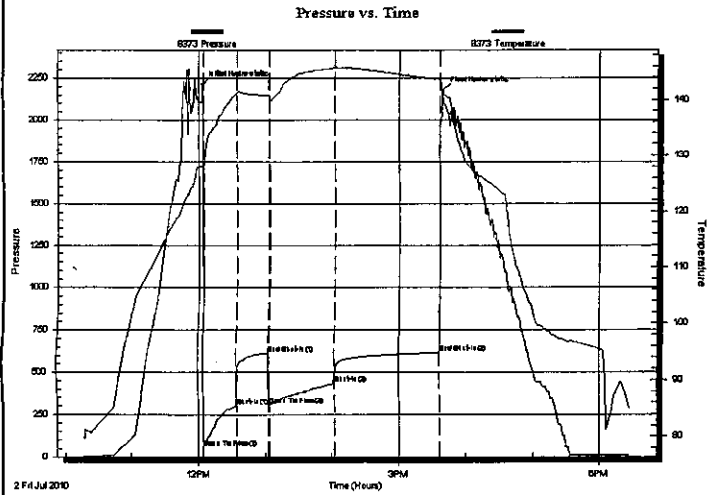
GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:03:49
 Time Test Ended: 18:27:48
 Interval: **4354.00 ft (KB) To 4437.00 ft (KB) (TVD)**
 Total Depth: **4437.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Brandon Turley
 Unit No: 35
 Reference Elevations: 2992.00 ft (KB)
 2982.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8373 Inside
 Press@RunDepth: 432.17 psig @ 4355.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.07.02 End Date: 2010.07.02 Last Calib.: 2010.07.02
 Start Time: 10:16:39 End Time: 18:27:48 Time On Btm: 2010.07.02 @ 12:02:49
 Time Off Btm: 2010.07.02 @ 15:38:18

TEST COMMENT: IF: 1/4 blow built to 7 in 30 min.
 IS: No return.
 FF: 1/4 blow BOB in 15 min.
 FS: Surface blow died in 20 min.

PRESSURE SUMMARY



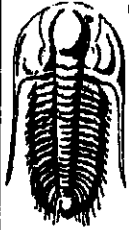
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2213.43	128.13	Initial Hydro-static
1	54.99	127.13	Open To Flow (1)
31	301.07	141.20	Shut-In(1)
61	611.52	140.74	End Shut-In(1)
62	305.81	139.92	Open To Flow (2)
120	432.17	145.58	Shut-In(2)
213	615.67	143.68	End Shut-In(2)
216	2176.38	141.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw trace of oil 90%w 10%m	0.61
434.00	ocmw 5%o 75%w 20%m	2.29
248.00	ocmw 5%o 55%w 40%m	3.63
138.00	gocw m 10%g 10%o 10%w 70%m	2.02
1.00	free oil 100%o	0.01
0.00	47 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources

Smith 16B-17-1931

410 17th St ste.900
Denver, CO 80202

17-19-31 Scott, KS

Job Ticket: 39088

DST#: 3

ATTN: Gary Doke- Jim Musgro Denver, CO 80202

Test Start: 2010.07.02 @ 10:16:39

Tool Information

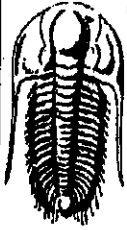
Drill Pipe:	Length: 3803.00 ft	Diameter: 3.88 inches	Volume: 55.62 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 542.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 58.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	4354.00 ft			Final 88000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	103.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4335.00	
Shut In Tool	5.00			4340.00	
Hydraulic tool	5.00			4345.00	
Facker	5.00			4350.00	20.00 Bottom Of Top Packer
Packer	4.00			4354.00	
Stubb	1.00			4355.00	
Recorder	0.00	8373	Inside	4355.00	
Recorder	0.00	8289	Outside	4355.00	
Perforations	13.00			4368.00	
Change Over Sub	1.00			4369.00	
Drill Pipe	62.00			4431.00	
Change Over Sub	1.00			4432.00	
Bullnose	5.00			4437.00	83.00 Bottom Packers & Anchor

Total Tool Length: 103.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources

Smith 16B-17-1931

410 17th St ste.900
Denver, CO 80202

17-19-31 Scott, KS

Job Ticket: 39088

DST#: 3

ATTN: Gary Doke- Jim Musgro Denver, CO 80202

Test Start: 2010.07.02 @ 10:16:39

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

27000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	mcw trace of oil 90%w 10%m	0.610
434.00	ocmw 5%o 75%w 20%m	2.290
248.00	ocmw 5%o 55%w 40%m	3.627
138.00	gocw m 10%g 10%o 10%w 70%m	2.018
1.00	free oil 100%o	0.015
0.00	47 GIP	0.000

Total Length: 945.00 ft Total Volume: 8.560 bbl

Num Fluid Samples: 0

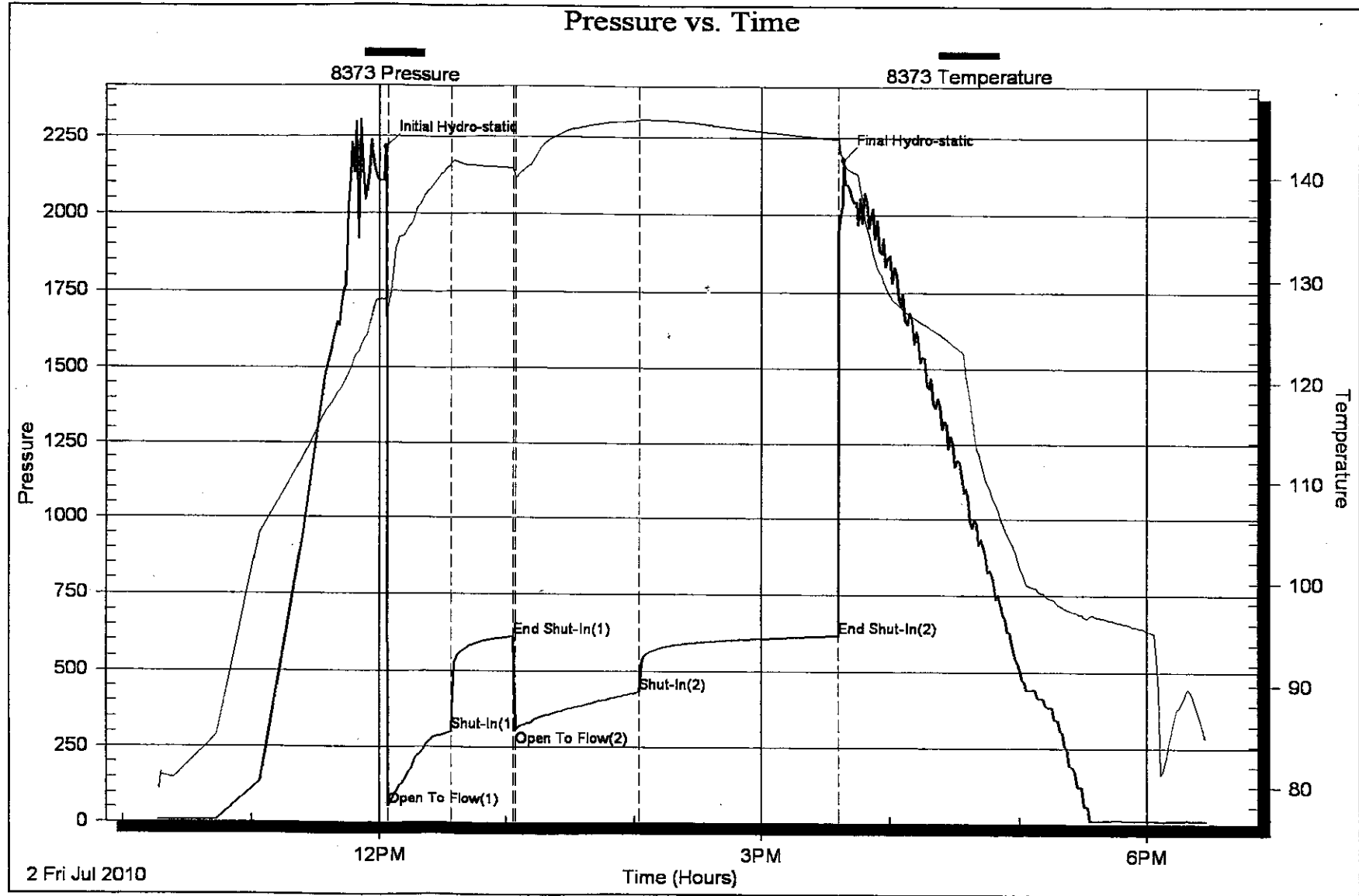
Num Gas Bombs: 0

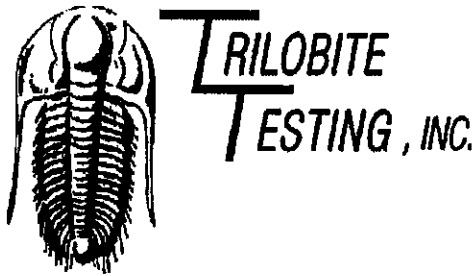
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .20@87=27000





DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th St ste.900
Denver, CO 80202

ATTN: Gary Doke- Jim Musgro

17-19-31 Scott, KS

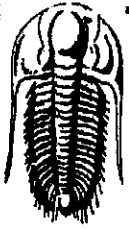
Smith 16B-17-1931

Start Date: 2010.07.03 @ 12:53:31

End Date: 2010.07.03 @ 21:34:56

Job Ticket #: 39089 DST #: 4

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources

Smith 16B-17-1931

410 17th St ste.900
Denver, CO 80202

17-19-31 Scott, KS

Job Ticket: 39089 DST#: 4

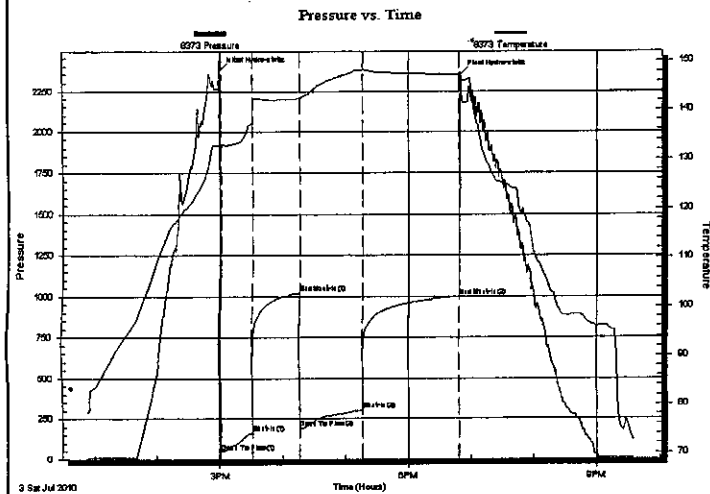
ATTN: Gary Doke- Jim Musgro Denver, CO 80202 Test Start: 2010.07.03 @ 12:53:31

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 15:00:41
 Time Test Ended: 21:34:56
 Interval: **4616.00 ft (KB) To 4650.00 ft (KB) (TVD)**
 Total Depth: **4650.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Brandon Turley**
 Unit No: **35**
 Reference Elevations: **2992.00 ft (KB)**
2982.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8373 Inside
 Press@RunDepth: **302.64 psig @ 4617.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.07.03** End Date: **2010.07.03** Last Calib.: **2010.07.03**
 Start Time: **12:53:31** End Time: **21:34:56** Time On Btm: **2010.07.03 @ 14:59:56**
 Time Off Btm: **2010.07.03 @ 18:49:25**

TEST COMMENT: IF: 1/4 blow BOB in 26 min.
 IS: No return.
 FF: Surface blow BOB in 32 min.
 FS: Surface blow built to 1 1/2 in 90 min.



PRESSURE SUMMARY

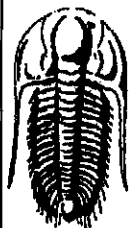
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2377.90	132.78	Initial Hydro-static
1	45.68	132.38	Open To Flow (1)
31	165.83	137.27	Shut-In(1)
76	1021.22	142.31	End Shut-In(1)
77	190.94	142.19	Open To Flow (2)
137	302.64	148.21	Shut-In(2)
228	1000.34	147.29	End Shut-In(2)
230	2354.45	146.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	mcw 95%w 5%m	1.52
186.00	w cm trace of oil 30%w 70%m	0.91
124.00	w cm trace of oil 10%w 90%m	1.32
50.00	oil 100%o	0.70
0.00	186 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources

Smith 16B-17-1931

410 17th St ste.900
Denver, CO 80202

17-19-31 Scott, KS

Job Ticket: 39089

DST#: 4

ATTN: Gary Doke- Jim Musgro Denver, CO 80202

Test Start: 2010.07.03 @ 12:53:31

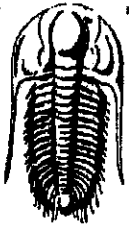
Tool Information

Drill Pipe:	Length: 4086.00 ft	Diameter: 3.80 inches	Volume: 57.32 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: 30000.00 lb
Drill Collar:	Length: 542.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 105000.0 lb
			<u>Total Volume: 59.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4616.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4597.00	
Shut In Tool	5.00			4602.00	
Hydraulic tool	5.00			4607.00	
Packer	5.00			4612.00	20.00 Bottom Of Top Packer
Packer	4.00			4616.00	
Stubb	1.00			4617.00	
Recorder	0.00	8373	Inside	4617.00	
Recorder	0.00	8289	Outside	4617.00	
Perforations	28.00			4645.00	
Bullnose	5.00			4650.00	34.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources

Smith 16B-17-1931

410 17th St ste.900
Denver, CO 80202

17-19-31 Scott, KS

Job Ticket: 39089

DST#: 4

ATTN: Gary Doke- Jim Musgro Denver, CO 80202

Test Start: 2010.07.03 @ 12:53:31

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

13000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	mcw 95%w 5%m	1.525
186.00	w cm trace of oil 30%w 70%m	0.915
124.00	w cm trace of oil 10%w 90%m	1.320
50.00	oil 100%o	0.701
0.00	186 GIP	0.000

Total Length: 670.00 ft

Total Volume: 4.461 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 29@80=27

.43@79=13000

