

CONFIDENTIAL WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

11/1/12

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

KCC
NOV 01 2010
CONFIDENTIAL

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. In process
 Dual Completion Docket No.
 Other (SWD or Enhr.?) Docket No.

7/7/10	7/16/2010	08/31/2010
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 171-20761-00-00
County: Scott
NW NE Sec. 16 Twp. 19 S. R. 31 East West
660 feet from S / (N) (circle one) Line of Section
1,980 feet from (E) / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) (NE) SE NW SW

Lease Name: Dearden Well #: 2B-16-1931
Field Name: Unknown

Producing Formation: Lansing and Mississippi
Elevation: Ground: 2960' Kelly Bushing: 2970'

Total Depth: 4756' Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at 9 jts @ 390 Feet

Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set DV tool @ 2994 Feet

If Alternate II completion, cement circulated from 2994
feet depth to surface w/ 445 sx cmf.

Drilling Fluid Management Plan *AFINS 11-1-10*
(Data must be collected from the Reserve Pit)

Chloride content 12,000 ppm Fluid volume 800 bbls
Dewatering method used Backfill/evaporation

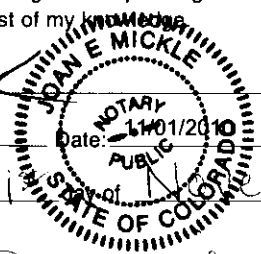
Location of fluid disposal if hauled offsite:
Operator Name:

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
Subscribed and sworn to before me this *11* day of *November*, 20*10*.
Notary Public: *Joan E. Mickle*
Date Commission Expires: *10/17/2012*



KCC Office Use ONLY

Letter of Confidentiality Received *11/1/10 - 11/1/12*
If Denied, Yes Date: **RECEIVED**
KANSAS CORPORATION COMMISSION

Wireline Log Received
 Geologist Report Received **NOV 03 2010**
 UIC Distribution

**CONSERVATION DIVISION
WICHITA, KS**



Operator Name: FIML Natural Resources, LLC Lease Name: Dearden Well #: 2B-16-1931

Sec. 16 Twp. 19 S. R. 31 [] East [x] 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 [] Yes [] No
Samples Sent to Geological Survey [x] Yes [] No
Cores Taken [] Yes [x] No
Electric Log Run [x] Yes [] No
List All E. Logs Run:

Table with 3 columns: Log, Formation (Top), Depth and Datum, Sample. Rows include Topeka, Heebner, Lansing, Marmaton, Cherokee, Mississippi with their respective depths.

ArrayComp/TrueResistivity; Microlog; SpectralDensity/DualSpacedNeutron

CASING RECORD table with columns: Purpose of String, Size Hole Drilled, Size Casing Set, Weight Lbs. / Ft., Setting Depth, Type of Cement, # Sacks Used, Type and Percent Additives. Includes Surface and Production rows.

ADDITIONAL CEMENTING / SQUEEZE RECORD table with columns: Purpose, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives. Includes Mouse and rat hole entry.

PERFORATION RECORD - Bridge Plugs Set/Type table with columns: Shots Per Foot, PERFORATION RECORD, Acid, Fracture, Shot, Cement Squeeze Record, Depth. Includes entries for 2 shots at various depths.

TUBING RECORD table with columns: Size, Set At, Packer At, Liner Run, Date of First, Resumerd Production, SWD or Enhr., Producing Method, Estimated Production Per 24 Hours, Oil Bbls., Gas Mcf, Water Bbls., Gas-Oil Ratio, Gravity.

Disposition of Gas METHOD OF COMPLETION Production Interval. Includes checkboxes for Vented, Sold, Used on Lease, Open Hole, Perf., Dually Comp., Commingled and production intervals 4587-89' & 4592-95' and 4222-24'.



PO BOX 31 Russell, KS 67666

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

RECEIVED
 KANSAS CORPORATION COMMISSION
 NOV 03 2010
 CONSERVATION DIVISION
 WICHITA, KS

RECEIVED
 JUL 23 2010

2347

INVOICE

Invoice Number: 123590
 Invoice Date: Jul 16, 2010
 Page: 1

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

KCC
 NOV 01 2010
 CONFIDENTIAL

Customer ID	Well Name / or Customer P.O.	Payment Terms	
FIML	Dearden-2 B #16-1931	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Jul 16, 2010	8/15/10

Quantity	Item	Description	Unit Price	Amount
495.00	MAT	Lightweight Class A	14.05	6,954.75
2,475.00	MAT	Gilsonite	0.89	2,202.75
124.00	MAT	Flo seal	2.50	310.00
583.00	SER	Handling	2.40	1,399.20
55.00	SER	Mileage 583 sx @ .10 per sk per mi	58.30	3,206.50
1.00	SER	Two Stage - Top	1,185.00	1,185.00

Subtotal	15,258.20
Sales Tax	691.13
Total Invoice Amount	15,949.33
Payment/Credit Applied	
TOTAL	15,949.33

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

3 3051.64

ONLY IF PAID ON OR BEFORE
 Aug 10, 2010

8200-118
 Adam D. Bl...
 2nd stage

-3051.64
 12,897.69

D09064

69

ALLIED CEMENTING CO., LLC. 038950

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 66565

RECEIVED
KANSAS CORPORATION COMMISSION
NOV 03 2010
CONSERVATION DIVISION
WICHITA, KS

KCC

NOV 01 2010

SERVICE POINT:

Orleans KS

CONFIDENTIAL

DATE <u>7-16-10</u>	SEC. <u>16</u>	TWP. <u>19</u>	RANGE <u>3</u>	SECTION <u>1</u>	WICHITA, KS	CALLED OUT	ON LOCATION <u>6:00am</u>	JOB START <u>6:30pm</u>	JOB FINISH <u>7:00pm</u>
DEARDEN LEASE <u>25</u>	WELL # <u>16-1931</u>	LOCATION <u>Scotchy E-7003 Rd S-Brad</u>				COUNTY <u>Scott</u>	STATE <u>KS</u>		
OLD OR <u>NEW</u> (Circle one)			end - E-Brad end - 145 win						

CONTRACTOR MURKIN #21

TYPE OF JOB 2-stage (Top)

HOLE SIZE 7 7/8 T.D.

CASING SIZE 5 1/2 15.5 DEPTH 2993'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 71.2 BBL

OWNER _____

CEMENT

AMOUNT ORDERED 495 L. 114#

Global 5*G-1/SK

EQUIPMENT

PUMP TRUCK CEMENTER Fuzzy

431 HELPER Kelly

BULK TRUCK

394 DRIVER Wayne

BULK TRUCK

_____ DRIVER _____

COMMON	@	_____	_____
POZMIX	@	_____	_____
GEL	@	_____	_____
CHLORIDE	@	_____	_____
ASC	@	_____	_____
<u>Lite</u>	@	<u>495</u>	<u>14.05 6959.25</u>
<u>Gilsonite</u>	@	<u>2475#</u>	<u>.89 2202.75</u>
<u>Global</u>	@	<u>124#</u>	<u>2.50 310.00</u>
HANDLING	@	<u>583</u>	<u>2.40 1399.20</u>
MILEAGE	@	<u>110 x 5 km</u>	<u>3206.50</u>
TOTAL			<u>14073.20</u>

REMARKS:

Pump 583 420 mix 20SK Mt - 309K RH
Mix 445 SKS cement. Wash pump
+ lines drop plug + displace. 1100'
Let close BU Tool @ 1700'
Cement did circulate about
70 BBLs Plug down @ 7:00pm
Thanks Fuzzy + crew

SERVICE

DEPTH OF JOB	<u>2993'</u>	
PUMP TRUCK CHARGE		<u>1185.00</u>
EXTRA FOOTAGE	@	_____
MILEAGE	@	<u>7.00 N/C</u>
MANIFOLD	@	_____
	@	_____
	@	_____
TOTAL		<u>1185.00</u>

CHARGE TO: FJML

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@	_____	_____
	@	_____	_____
	@	_____	_____
	@	_____	_____
	@	_____	_____
TOTAL		_____	_____

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 Dot 620 640 5718

SIGNATURE [Signature]



CEMENTING CO., LLC
Cementing & Acidizing Services

PO BOX 31 Russell, KS 67665

RECEIVED
KANSAS CORPORATION COMMISSION

NOV 03 2010

CONSERVATION DIVISION
WICHITA, KS

RECEIVED
JUL 23 2010

2347

INVOICE

Invoice Number: 123589

Invoice Date: Jul 16, 2010

Page: 1

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

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

KCC
NOV 01 2010
CONFIDENTIAL

Customer ID	Well Name(s) or Customer P.O.	Payment Terms	
FIML	Dearden 2 B #16-1931	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Jul 16, 2010	8/15/10

Quantity	Item	Description	Unit Price	Amount
6.00	MAT	Gel	20.80	124.80
300.00	MAT	ASC Class A	18.60	5,580.00
31.00	MAT	Salt	23.95	742.45
1,500.00	MAT	Gilsonite	0.89	1,335.00
75.00	MAT	Flo Seal	2.50	187.50
500.00	MAT	WFR-2	1.27	635.00
388.00	SER	Handling	2.40	931.20
55.00	SER	Mileage 388 sx @ .10 per sk per mi	38.80	2,134.00
1.00	SER	Two Stage - Bottom	2,185.00	2,185.00
55.00	SER	Pump Truck Mileage	7.00	385.00
1.00	EQP	5.5 Sure Seal Float Collar	418.00	418.00
1.00	EQP	5.5 Sure Seal Float Shoe	349.00	349.00
25.00	EQP	5.5 Centralizer	35.00	875.00
1.00	EQP	5.5 Lock Ring	29.00	29.00
2.00	EQP	5.5 Basket	161.00	322.00
1.00	EQP	5.5 D V Tool	2,832.00	2,832.00

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

3 388 21

ONLY IF PAID ON OR BEFORE
Aug 0, 2010

Subtotal	19,064.95
Sales Tax	980.37
Total Invoice Amount	20,045.32
Payment/Credit Applied	
TOTAL	20,045.32

8200-118 - 3812.99
 Adam D. Blum
 "1st stage" D09064
 16,232.33

ALLIED CEMENTING CO., LLC. 038949

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

KCC
NOV 01 2010

SERVICE POINT: OAKHURKS
6:00am

DATE <u>7-16-10</u>	SEC. <u>16</u>	TWP. <u>19</u>	RANGE <u>31</u>	CONFIDENTIAL	ON LOCATION <u>6:00am</u>	JOB START <u>6:30pm</u>	JOB FINISH <u>7:00pm</u>
DEARDEW LEASE <u>28</u>	WELL# <u>16-1931</u>		LOCATION <u>Scott City G Truss Rd</u>		COUNTY <u>Scott</u>	STATE <u>Ks</u>	
OLD OR <u>NEW</u> (Circle one)			S-Dead end e to D end <u>4/2/10</u>			RECEIVED KANSAS CORPORATION COMMISSION	

CONTRACTOR MURKIN #21 OWNER NOV 13 2010

TYPE OF JOB <u>2 stage (bottom)</u>	CEMENT CONSERVATION DIVISION <u>WICHITA, KS</u>
HOLE SIZE <u>7 7/8</u> T.D. <u>4760' 39</u>	AMOUNT ORDERED <u>300 ASC 29 seal</u>
CASING SIZE <u>5 1/2 IS. S</u> DEPTH <u>4752</u>	<u>1090 seal, 5* G. / 1/2 K, 114 29 seal</u>
TUBING SIZE _____ DEPTH _____	<u>500 gal WFRAT</u>
DRILL PIPE _____ DEPTH _____	
TOOL <u>DU Tool</u> DEPTH <u>2993</u>	
PRES. MAX _____ MINIMUM _____	COMMON _____ @ _____
MEAS. LINE _____ SHOE JOINT <u>22</u>	POZMIX _____ @ _____
CEMENT LEFT IN CSG. <u>22</u>	GEL <u>6</u> @ <u>20.00</u> <u>124.00</u>
PERFS. _____	CHLORIDE _____ @ _____
DISPLACEMENT <u>41.33(w)</u> <u>7124 (mud)</u>	ASC <u>300</u> @ <u>18.60</u> <u>5580.00</u>

EQUIPMENT

PUMP TRUCK # <u>431</u>	CEMENTER <u>Fuzz</u>
BULK TRUCK # <u>373</u>	HELPER <u>Kelly</u>
BULK TRUCK # _____	DRIVER <u>[Redacted]</u>
BULK TRUCK # <u>373</u>	DRIVER <u>Alan</u>

SALT	<u>31</u>	@ <u>23.95</u>	<u>742.45</u>
Gilsonite	<u>1500</u>	@ <u>1.89</u>	<u>1335.00</u>
Flo-seal	<u>75</u>	@ <u>2.50</u>	<u>187.50</u>
WFRAT	<u>500 gal</u>	@ <u>1.27</u>	<u>635.00</u>
HANDLING	<u>388</u>	@ <u>2.48</u>	<u>931.00</u>
MILEAGE	<u>1045K</u>	@ <u>2.14</u>	<u>2134.00</u>
TOTAL			<u>11669.95</u>

REMARKS:

Pump S B/L water 500gal WFRAT, S B/L water
mix 300GK ASC 1090 seal 29 seal 5* G. / 1/2 K
114 29 seal, wash pump + lines
Drop plug + displace to float collar
1100' L.O.T, 1700' land Plugdown @
1:45pm. Drop DU Bomb wait 20min
open DU Tool @ Circ 4 hrs.

Thanks Kuzlik crew

SERVICE

DEPTH OF JOB	<u>4752</u>	<u>29</u>
PUMP TRUCK CHARGE		<u>2185.00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>55</u>	@ <u>7.00</u> <u>385.00</u>
MANIFOLD	@	
TOTAL		

CHARGE TO: FIML

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

5 1/2

1- Sureseal float collar		<u>418.00</u>
1- Sureseal float shoe	@	<u>349.00</u>
25-Cent	@ <u>35.00</u>	<u>875.00</u>
1- locking	@	<u>29.00</u>
2- Baskets	@ <u>161.00</u>	<u>322.00</u>
1- DU Tool	@	<u>2852.00</u>
TOTAL		

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 620 240 5718

SIGNATURE [Signature]

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: 123477

Invoice Date: Jul 8, 2010

Page: 1

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

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

KCC
NOV 01 2010
CONFIDENTIAL
Dearden #28-16-1931

Customer ID	Well Name # or Customer P.O.	Payment Terms	
FIML	Dearden #28-16-1931	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jul 8, 2010	8/7/10

Quantity	Item	Description	Unit Price	Amount
340.00	MAT	Class A Common	15.45	5,253.00
6.00	MAT	Gel	20.80	124.80
12.00	MAT	Chloride	58.20	698.40
170.00	MAT	Flo Seal	2.50	425.00
365.00	SER	Handling	2.40	876.00
55.00	SER	Mileage 365 sx @ .10 per sk per mi	36.50	2,007.50
1.00	SER	Surface	1,018.00	1,018.00
55.00	SER	Pump Truck Mileage	7.00	385.00
1.00	EQP	8.5/8 Wooden Surface Plug	68.00	68.00
1.00	EQP	8.5/8 Texas Pattern Guide Shoe	258.00	258.00
1.00	EQP	8.5/8 AFU Insert	158.00	158.00
3.00	EQP	8.5/8 Centralizers	49.00	147.00

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KANSAS CORPORATION COMMISSION
NOV 03 2010
CONSERVATION DIVISION
WICHITA, KS

Subtotal	11,418.70
Sales Tax	520.65
Total Invoice Amount	11,939.35
Payment/Credit Applied	
TOTAL	11,939.35

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

ONLY IF PAID ON OR BEFORE
Aug 2, 2010

8100-145
Adam D. Bl...
- 2283.74
9655.61
D 09064

ALLIED CEMENTING CO., LLC. 038893

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

KCC
NOV 01 2010

SERVICE POINT: Oakley, KS

CONFIDENTIAL

DATE <u>2/8/10</u>	SEC. <u>16</u>	TWP. <u>19</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00 AM</u>	JOB FINISH <u>2:00 PM</u>
LEASE <u>Deardon</u>	WELL # <u>28-16-1931</u>	LOCATION <u>SW 1/4 G 1/2 E 70 T20S R4</u>			COUNTY <u>SCOTT</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>			S 70 Dead End 1/2 E 1/2 S W into				

CONTRACTOR Murfin 21

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 396'

CASING SIZE 8 5/8 DEPTH 396'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 42.22

CEMENT LEFT IN CSG. 42.22

PERFS.

DISPLACEMENT 22.53 BBL

OWNER Same

CEMENT

AMOUNT ORDERED 340 SKS Com

370 cc 2 7/8 gal 1/2 lb FLO Seal

COMMON	<u>340</u>	@ <u>15.45</u>	<u>5253.00</u>
POZMIX		@	
GEL	<u>6</u>	@ <u>20.00</u>	<u>124.00</u>
CHLORIDE	<u>12</u>	@ <u>58.00</u>	<u>698.00</u>
ASC		@	

EQUIPMENT

PUMP TRUCK CEMENTER Alan

422 HELPER Wayne

BULK TRUCK

396 DRIVER Jerry

BULK TRUCK

DRIVER

Please RECEIVED

KANSAS CORPORATION COMMISSION

NOV 03 2010

CONSERVATION DIVISION

WICHITA, KS

HANDLING	<u>365 SKS</u>	@ <u>2.40</u>	<u>876.00</u>
MILEAGE	<u>109 SK/mile</u>	@	<u>2007.50</u>
TOTAL			<u>9384.70</u>

REMARKS:

Run 8 5/8 Cas, Circulate Ball Thru Insert, Mix 240 SKS Displace Plug to Insert Cement Did NOT Circulate, wait 1 Hr. mix 40 SKS down B-side @ 6:00 AM. wait 1 Hr, mix 60 SKS to top off cellar, lost circulation @ 98' while drilling

Thank You Alan, Wayne, Jerry

SERVICE

DEPTH OF JOB	<u>396'</u>		
PUMP TRUCK CHARGE			<u>1018.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>55</u>	@ <u>7.00</u>	<u>385.00</u>
MANIFOLD		@	
TOTAL			<u>1403.00</u>

CHARGE TO: FJML

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

Wooden Plug - Surface	@	<u>68.00</u>
Texas Pattern Guide Shoe	@	<u>258.00</u>
AFU Insert	@	<u>158.00</u>
Centralizers - 3	@ <u>49.00</u>	<u>147.00</u>
TOTAL <u>631.00</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.

PRINTED NAME Gary Duke

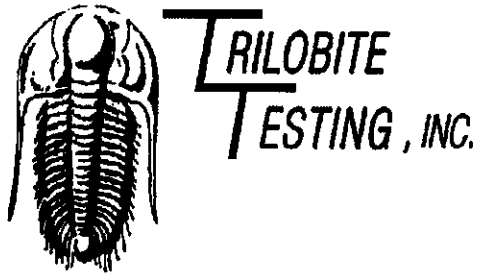
SIGNATURE [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

KCC
NOV 01 2010
CONFIDENTIAL



DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th ST, STE 900
Denver CO 80202

ATTN: Josh Austin

16-19-31w Scott KS

Dearden #2B-16-1931

Start Date: 2010.07.11 @ 21:20:05

End Date: 2010.07.12 @ 04:45:14

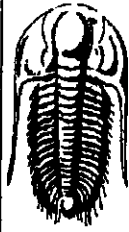
Job Ticket #: 39188 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

NOV 03 2010

CONSERVATION DIVISION
WICHITA, KS

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FML Natural Resources

410 17th ST, STE 900
Denver CO 80202

ATTN: Josh Austin

Dearden #2B-16-1931

16-19-31w Scott KS

Job Ticket: 39188

DST#: 1

Test Start: 2010.07.11 @ 21:20:05

GENERAL INFORMATION:

Formation: **Lans I**

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

Time Tool Opened: 23:19:45

Time Test Ended: 04:45:14

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 48

Interval: **4182.00 ft (KB) To 4210.00 ft (KB) (TVD)**

Total Depth: **4210.00 ft (KB) (TVD)**

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

Reference Elevations: **2972.00 ft (KB)**

2960.00 ft (CF)

KB to GR/CF: **12.00 ft**

Serial #: 8322

Inside

Press@RunDepth: **159.28 psig @ 4183.00 ft (KB)**

Start Date: **2010.07.11**

End Date:

2010.07.12

Start Time: **21:20:05**

End Time:

04:45:14

Capacity: **8000.00 psig**

Last Calib.: **2010.07.12**

Time On Btm: **2010.07.11 @ 23:19:30**

Time Off Btm: **2010.07.12 @ 02:21:59**

TEST COMMENT:

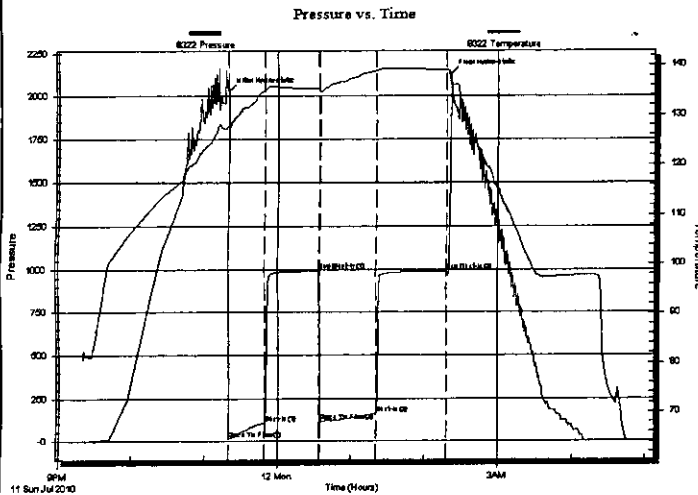
IF: BOB in 29 mins.

IS: Built to 3/4 inches died in 23 mins.

FF: BOB in 28 mins.

FS: Built to 5 1/2 inches died in 47 mins.

PRESSURE SUMMARY



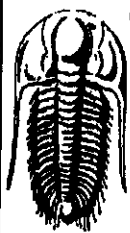
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2030.90	127.83	Initial Hydro-static
1	14.16	127.34	Open To Flow (1)
30	101.84	134.88	Shut-In(1)
75	991.44	135.45	End Shut-In(1)
76	115.08	135.06	Open To Flow (2)
121	159.28	138.87	Shut-In(2)
179	990.01	139.03	End Shut-In(2)
183	2130.76	136.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
155.00	OG&WCM 20%g 10%o 15%w 55%m	0.76
155.00	HO&GCM 30%g 25%o 45%m	1.39
80.00	SMCO&G 20%g 70%o 10%m	1.12
0.00	GIP = 480 FT	0.00
0.00	API = 35@80F = 33 corrected	0.00
0.00	RW = N/A	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources

Dearden #2B-16-1931

410 17th ST, STE 900
Denver CO 80202

16-19-31w Scott KS

Job Ticket: 39188

DST#: 1

ATTN: Josh Austin

Test Start: 2010.07.11 @ 21:20:05

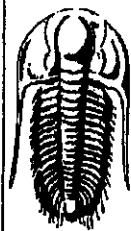
Tool Information

Drill Pipe:	Length: 3929.00 ft	Diameter: 3.80 inches	Volume: 55.11 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:	25000.00 lb
Drill Collar:	Length: 241.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose:	85000.00 lb
			Total Volume: 56.30 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4182.00 ft			Final	65000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 ft				
Tool Length:	48.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4163.00	
Shut In Tool	5.00			4168.00	
Hydraulic tool	5.00			4173.00	
Packer	5.00			4178.00	20.00 Bottom Of Top Packer
Packer	4.00			4182.00	
Stubb	1.00			4183.00	
Recorder	0.00	8322	Inside	4183.00	
Recorder	0.00	8166	Inside	4183.00	
Perforations	24.00			4207.00	
Bullnose	3.00			4210.00	28.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources

Dearden #2B-16-1931

410 17th ST, STE 900
Denver CO 80202

16-19-31w Scott KS

Job Ticket: 39188

DST#: 1

ATTN: Josh Austin

Test Start: 2010.07.11 @ 21:20:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.36 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
155.00	OG&WCM 20%g 10%o 15%w 55%m	0.762
155.00	HO&GCM 30%g 25%o 45%m	1.391
80.00	SMCO&G 20%g 70%o 10%m	1.122
0.00	GIP = 480 FT	0.000
0.00	API = 35@80F = 33 corrected	0.000
0.00	RW = N/A	0.000

Total Length: 390.00 ft Total Volume: 3.275 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

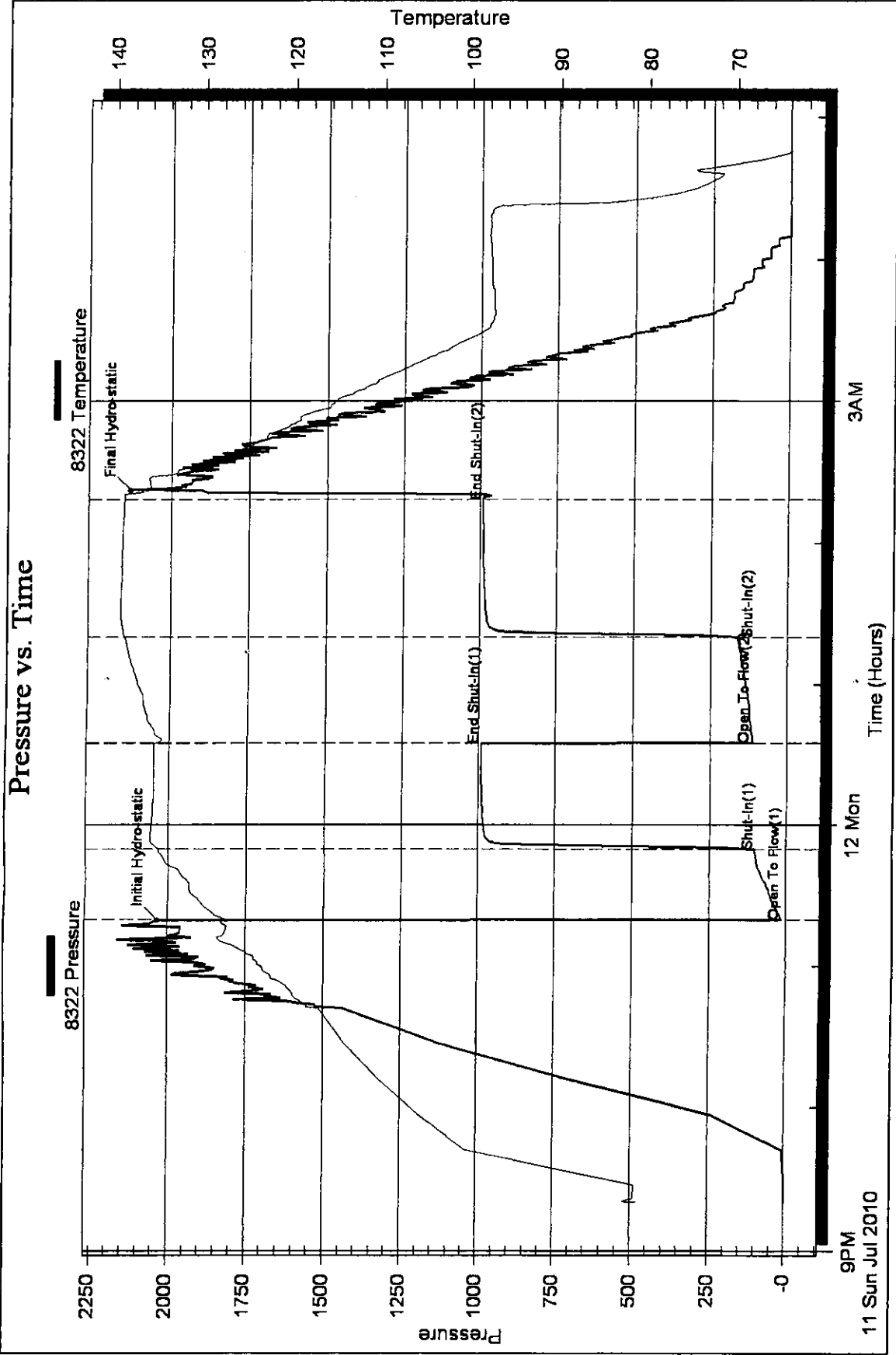
Serial #:

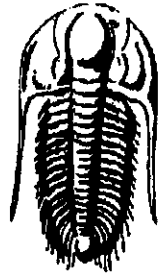
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th ST, STE 900
Denver CO 80202

ATTN: Josh Austin

16-19-31w Scott KS

Dearden #2B-16-1931

Start Date: 2010.07.12 @ 12:07:05

End Date: 2010.07.12 @ 20:00:44

Job Ticket #: 39189 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

FIML Natural Resources

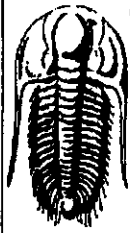
Dearden #2B-16-1931

16-19-31w Scott KS

DST # 2

Lans. J

2010.07.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FML Natural Resources

410 17th ST, STE 900
Denver CO 80202

ATTN: Josh Austin

Dearden #2B-16-1931

16-19-31w Scott KS

Job Ticket: 39189

DST#: 2

Test Start: 2010.07.12 @ 12:07:05

GENERAL INFORMATION:

Formation: **Lans. J**

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

Time Tool Opened: 13:51:15

Time Test Ended: 20:00:44

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Domsch**

Unit No: **48**

Interval: **4210.00 ft (KB) To 4259.00 ft (KB) (TVD)**

Total Depth: **4259.00 ft (KB) (TVD)**

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

Reference Elevations: **2972.00 ft (KB)**

2960.00 ft (CF)

KB to GR/CF: **12.00 ft**

Serial #: **8322**

Inside

Press@RunDepth: **309.21 psig @ 4211.00 ft (KB)**

Start Date: **2010.07.12**

End Date:

2010.07.12

Start Time: **12:07:05**

End Time:

20:00:44

Capacity: **8000.00 psig**

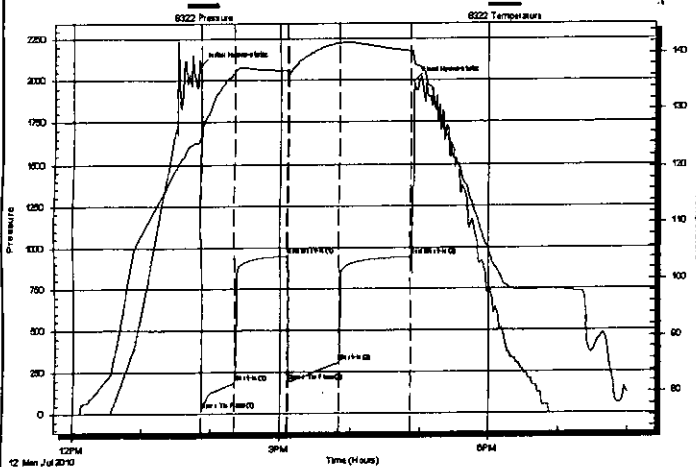
Last Calib.: **2010.07.12**

Time On Btm: **2010.07.12 @ 13:51:00**

Time Off Btm: **2010.07.12 @ 16:55:15**

TEST COMMENT: IF: BOB in 11 mins.
IS: Built to 1 inch died in 27 mins.
FF: BOB in 13 mins.
FS: Built to 2 1/4 inchesw died in 35 mins.

Pressure vs. Time



PRESSURE SUMMARY

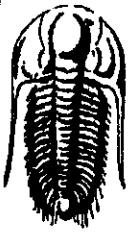
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2088.84	125.10	Initial Hydro-static
1	24.13	124.62	Open To Flow (1)
30	185.18	136.75	Shut-In(1)
75	949.70	136.90	End Shut-In(1)
76	190.54	136.67	Open To Flow (2)
120	309.21	141.74	Shut-In(2)
182	943.91	140.33	End Shut-In(2)
185	1994.80	138.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bb)
186.00	O&MCW 10%o 70%w 20%m	0.91
124.00	GO&WCM 15%g 15%o 30%w 40%m	1.24
186.00	GW&MCO 20%g 65%o 10%w 5%m	2.61
229.00	CGO 70%g 30%o	3.21
0.00	GIP = 635 ft	0.00
0.00	API = 32@85F = 29.5 corrected	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources

Dearden #2B-16-1931

410 17th ST, STE 900
Denver CO 80202

16-19-31w Scott KS

ATTN: Josh Austin

Job Ticket: 39189

DST#: 2

Test Start: 2010.07.12 @ 12:07:05

Tool Information

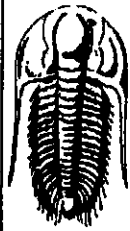
Drill Pipe:	Length: 3959.00 ft	Diameter: 3.80 inches	Volume: 55.53 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 241.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose:	80000.00 lb
			Total Volume: 56.72 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	65000.00 lb
Depth to Top Packer:	4210.00 ft			Final	69000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	49.00 ft				
Tool Length:	69.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4191.00	
Shut In Tool	5.00			4196.00	
Hydraulic tool	5.00			4201.00	
Packer	5.00			4206.00	20.00 Bottom Of Top Packer
Packer	4.00			4210.00	
Stubb	1.00			4211.00	
Recorder	0.00	8322	Inside	4211.00	
Recorder	0.00	8166	Inside	4211.00	
Perforations	12.00			4223.00	
Change Over Sub	1.00			4224.00	
Drill Pipe	31.00			4255.00	
Change Over Sub	1.00			4256.00	
Bullnose	3.00			4259.00	49.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources

Dearden #2B-16-1931

410 17th ST, STE 900
Denver CO 80202

16-19-31w Scott KS

Job Ticket: 39189

DST#: 2

ATTN: Josh Austin

Test Start: 2010.07.12 @ 12:07:05

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 5.97 in"
Resistivity: 0.00 ohm.m
Salinity: 1700.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 29.5 deg API
Water Salinity: 37000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	O&MCW 10%o 70%w 20%m	0.915
124.00	GO&WCM 15%g 15%o 30%w 40%m	1.238
186.00	GW&MCO 20%g 65%o 10%w 5%m	2.609
229.00	CGO 70%g 30%o	3.212
0.00	GP = 635 ft	0.000
0.00	API = 32@85F = 29.5 corrected	0.000
0.00	RW = .163@85f = 37000 ppm	0.000

Total Length: 725.00 ft Total Volume: 7.974 bbl

Num Fluid Samples: 0

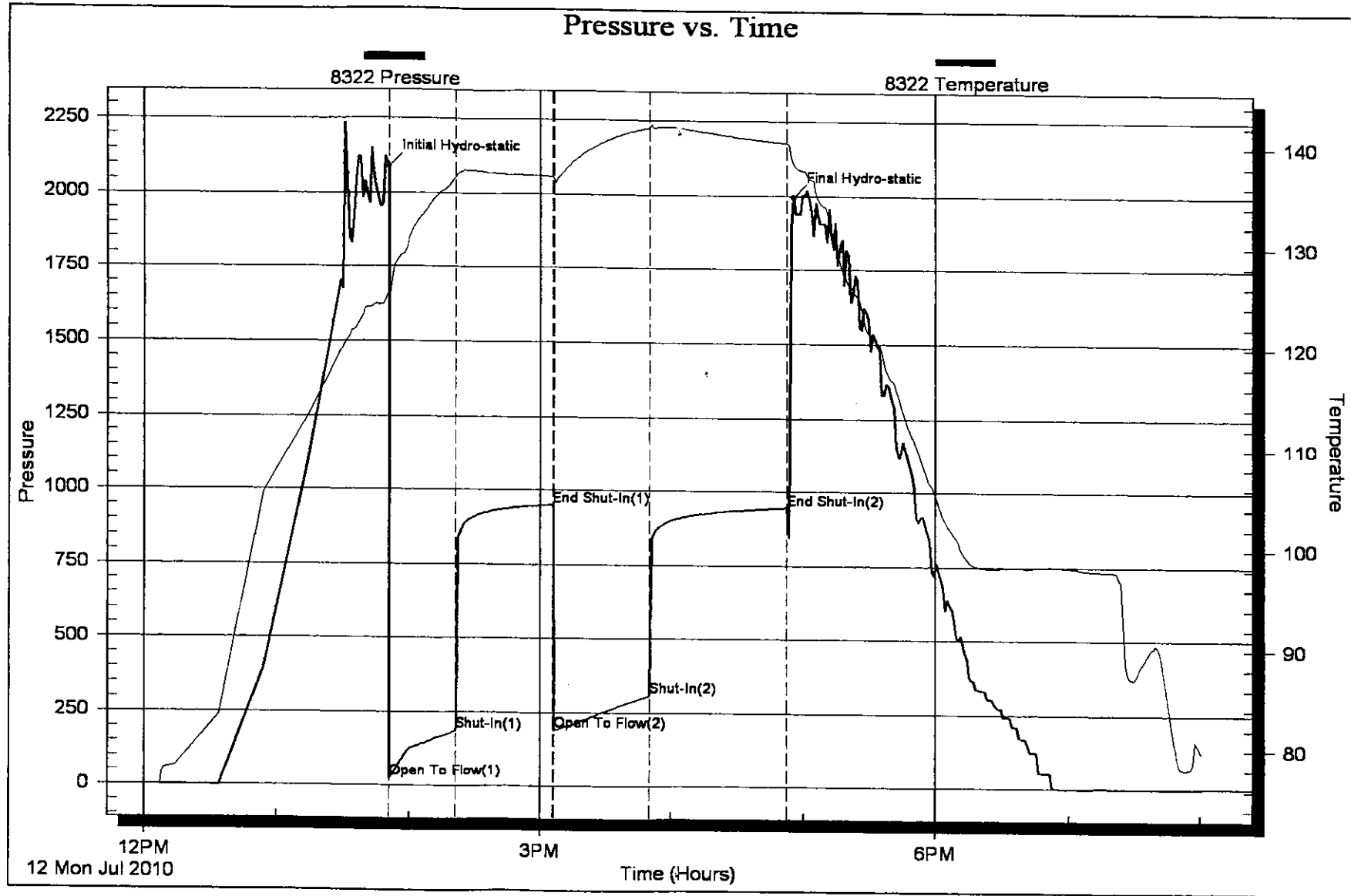
Num Gas Bombs: 0

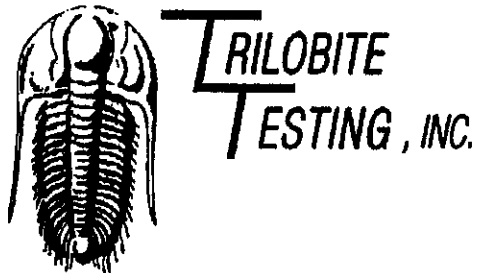
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th ST, STE 900
Denver CO 80202

ATTN: Josh Austin

16-19-31w Scott KS

Dearden #2B-16-1931

Start Date: 2010.07.13 @ 05:46:05

End Date: 2010.07.13 @ 12:19:29

Job Ticket #: 39190 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

FML Natural Resources

410 17th ST, STE 900
Denver CO 80202

ATTN: Josh Austin

Dearden #2B-16-1931

16-19-31w Scott KS

Job Ticket: 39190

DST#: 3

Test Start: 2010.07.13 @ 05:46:05

GENERAL INFORMATION:

Formation: **Lans K & L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:28:30

Time Test Ended: 12:19:29

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 48

Interval: **4269.00 ft (KB) To 4322.00 ft (KB) (TVD)**

Total Depth: 4322.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2972.00 ft (KB)

2960.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: **8322**

Inside

Press@RunDepth: 852.84 psig @ 4270.00 ft (KB)

Start Date: 2010.07.13

End Date: 2010.07.13

Start Time: 05:46:05

End Time: 12:19:29

Capacity: 8000.00 psig

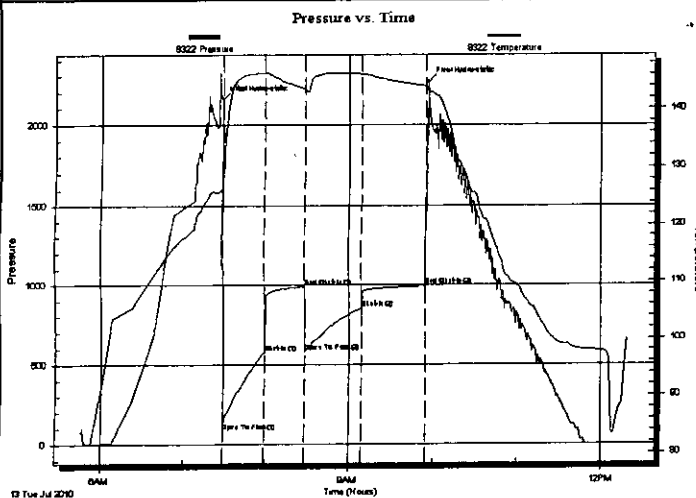
Last Calib.: 2010.07.13

Time On Btm: 2010.07.13 @ 07:28:15

Time Off Btm: 2010.07.13 @ 09:56:30

TEST COMMENT: IF: BOB in 2 1/2 mins.
IS: No return.
FF: BOB in 3 1/2 mins.
FS: No return.

PRESSURE SUMMARY



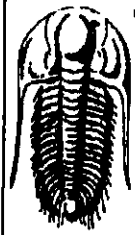
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2159.33	126.09	Initial Hydro-static
1	78.01	125.23	Open To Flow (1)
31	574.63	146.08	Shut-In(1)
60	986.34	143.53	End Shut-In(1)
61	579.95	143.42	Open To Flow (2)
101	852.84	146.01	Shut-In(2)
147	992.89	143.98	End Shut-In(2)
149	2268.44	143.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	M 100% m	0.15
1534.00	SMCW 95% w 5% m	19.60
186.00	HMCW 70% w 30% m	2.61
0.00	GP = 0	0.00
0.00	RW = .125 @ 95F = 44000 ppm	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources

Dearden #2B-16-1931

410 17th ST, STE 900
Denver CO 80202

16-19-31w Scott KS

Job Ticket: 39190

DST#: 3

ATTN: Josh Austin

Test Start: 2010.07.13 @ 05:46:05

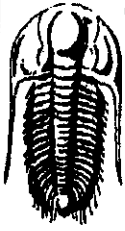
Tool Information

Drill Pipe:	Length: 4016.00 ft	Diameter: 3.80 inches	Volume: 56.33 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: 25000.00 lb
Drill Collar:	Length: 241.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 57.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4269.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	73.00 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			4250.00	
Shut in Tool	5.00			4255.00	
Hydraulic tool	5.00			4260.00	
Packer	5.00			4265.00	20.00 Bottom Of Top Packer
Packer	4.00			4269.00	
Stubb	1.00			4270.00	
Recorder	0.00	8322	Inside	4270.00	
Recorder	0.00	8166	Inside	4270.00	
Perforations	16.00			4286.00	
Change Over Sub	1.00			4287.00	
Drill Pipe	31.00			4318.00	
Change Over Sub	1.00			4319.00	
Bullnose	3.00			4322.00	53.00 Bottom Packers & Anchor

Total Tool Length: 73.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources
410 17th ST, STE 900
Denver CO 80202
ATTN: Josh Austin

Dearden #2B-16-1931
16-19-31w Scott KS
Job Ticket: 39190 **DST#: 3**
Test Start: 2010.07.13 @ 05:46:05

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:	44000 ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.98 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1700.00 ppm			
Filter Cake: 1.00 inches			

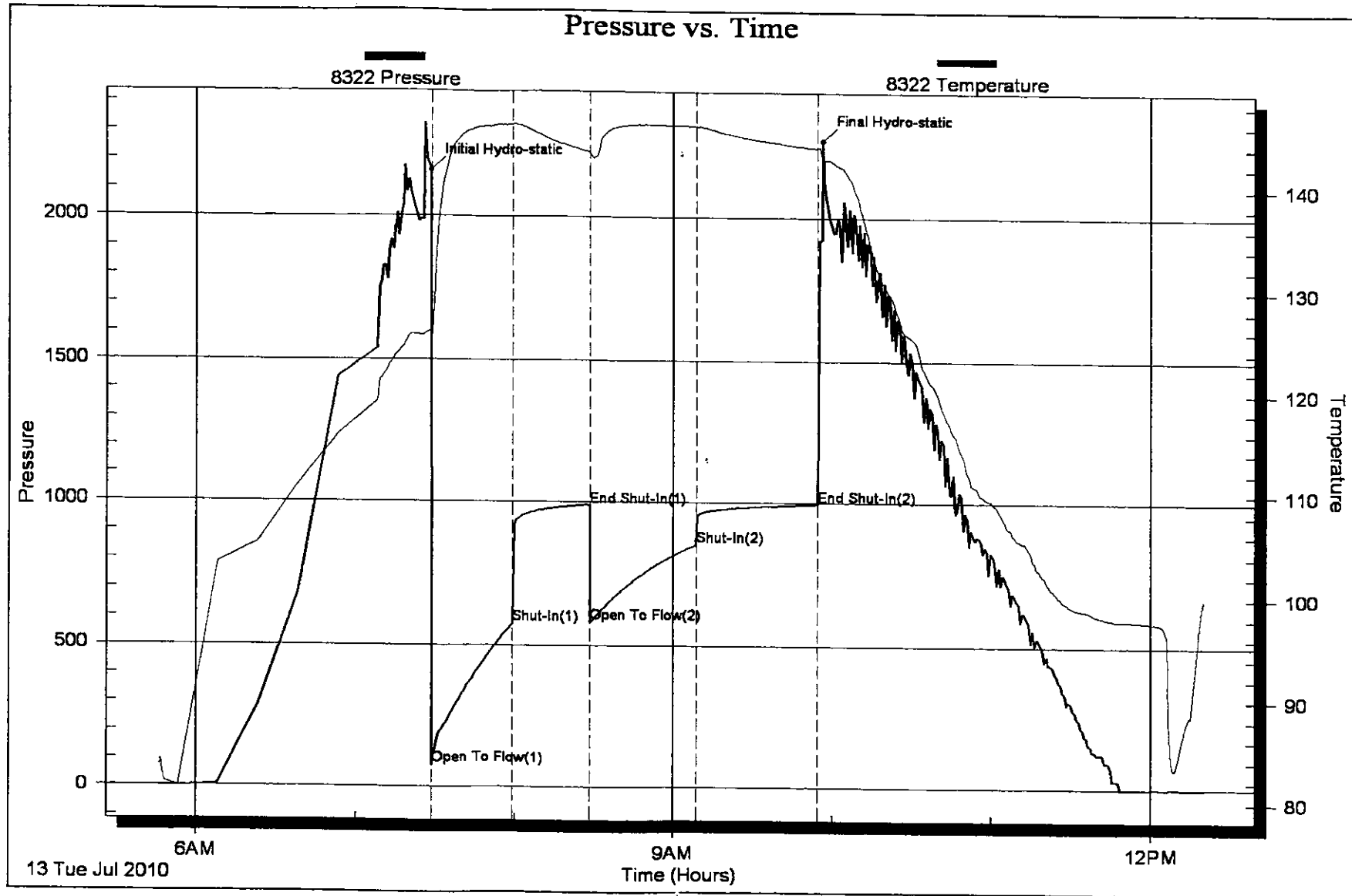
Recovery Information

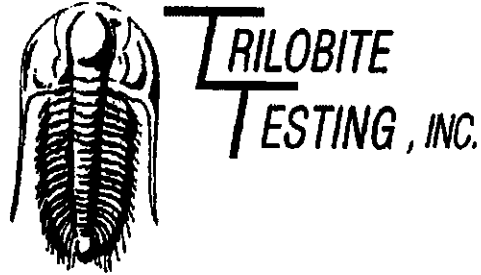
Recovery Table

Length ft	Description	Volume bbl
30.00	M 100%m	0.148
1534.00	SMCW 95%w 5%m	19.596
186.00	HMCW 70%w 30%m	2.609
0.00	GIP = 0	0.000
0.00	RW = .125 @95F = 44000 ppm	0.000

Total Length: 1750.00 ft Total Volume: 22.353 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th ST, STE 900
Denver CO 80202

ATTN: Josh Austin

16-19-31w Scott KS

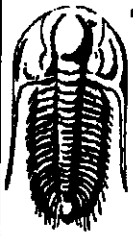
Dearden #2B-16-1931

Start Date: 2010.07.13 @ 21:42:05

End Date: 2010.07.14 @ 03:52:44

Job Ticket #: 39191 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

TOOL DIAGRAM

FML Natural Resources

Dearden #2B-16-1931

410 17th ST, STE 900
Denver CO 80202

16-19-31w Scott KS

Job Ticket: 39191

DST#: 4

ATTN: Josh Austin

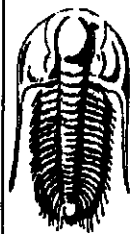
Test Start: 2010.07.13 @ 21:42:05

Tool Information

Drill Pipe:	Length: 4115.00 ft	Diameter: 3.80 inches	Volume: 57.72 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: 25000.00 lb
Drill Collar:	Length: 241.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 58.91 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4351.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4332.00	
Shut In Tool	5.00			4337.00	
Hydraulic tool	5.00			4342.00	
Packer	5.00			4347.00	20.06 Bottom Of Top Packer
Packer	4.00			4351.00	
Stubb	1.00			4352.00	
Recorder	0.00	8322	inside	4352.00	
Recorder	0.00	8166	inside	4352.00	
Perforations	15.00			4367.00	
Bullnose	3.00			4370.00	19.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources

Dearden #2B-16-1931

410 17th ST, STE 900
Denver CO 80202

16-19-31w Scott KS

Job Ticket: 39191

DST#: 4

ATTN: Josh Austin

Test Start: 2010.07.13 @ 21:42:05

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: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	M 100%m	0.005
0.00	GIP = 0	0.000

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

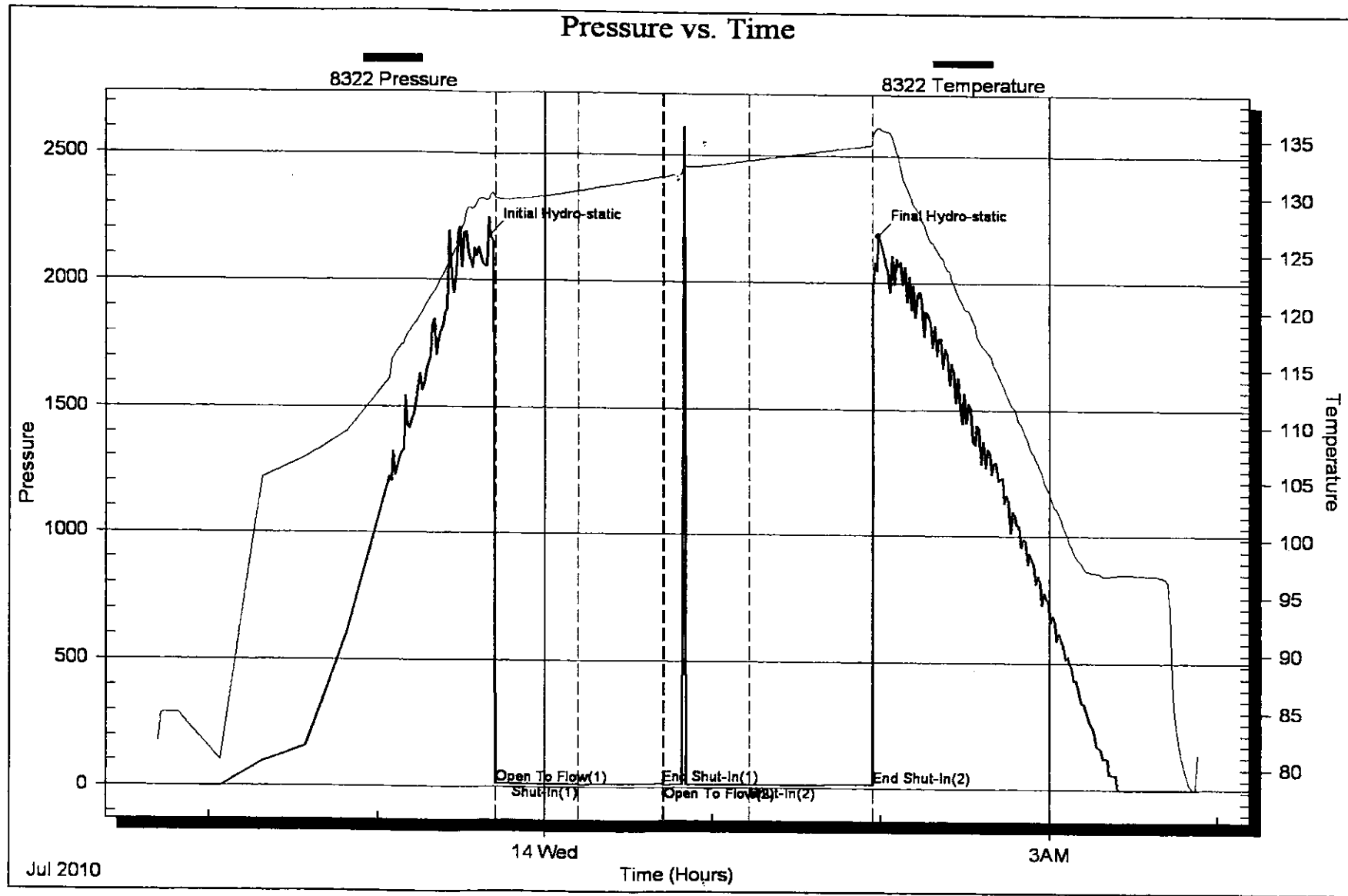
Num Gas Bombs: 0

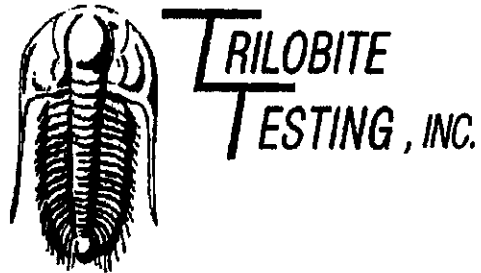
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th ST, STE 900
Denver CO 80202

ATTN: Josh Austin

16-19-31w Scott KS

Dearden #2B-16-1931

Start Date: 2010.07.15 @ 03:53:00

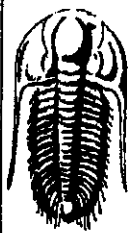
End Date: 2010.07.15 @ 12:02:30

Job Ticket #: 39192 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FML Natural Resources

410 17th ST, STE 900
Denver CO 80202

ATTN: Josh Austin

Dearden #2B-16-1931

16-19-31w Scott KS

Job Ticket: 39192

DST#: 5

Test Start: 2010.07.15 @ 03:53:00

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:43:00

Time Test Ended: 12:02:30

Test Type: Conventional Straddle

Tester: Brandon Domsch

Unit No: 48

Interval: **4575.00 ft (KB) To 4603.00 ft (KB) (TVD)**

Total Depth: 4620.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2972.00 ft (KB)

2960.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: **8322**

Inside

Press@RunDepth: 195.90 psig @ 4576.00 ft (KB)

Start Date: 2010.07.15

End Date:

2010.07.15

Start Time: 03:53:05

End Time:

12:02:29

Capacity: 8000.00 psig

Last Calib.: 2010.07.15

Time On Btm: 2010.07.15 @ 05:41:15

Time Off Btm: 2010.07.15 @ 09:30:15

TEST COMMENT:

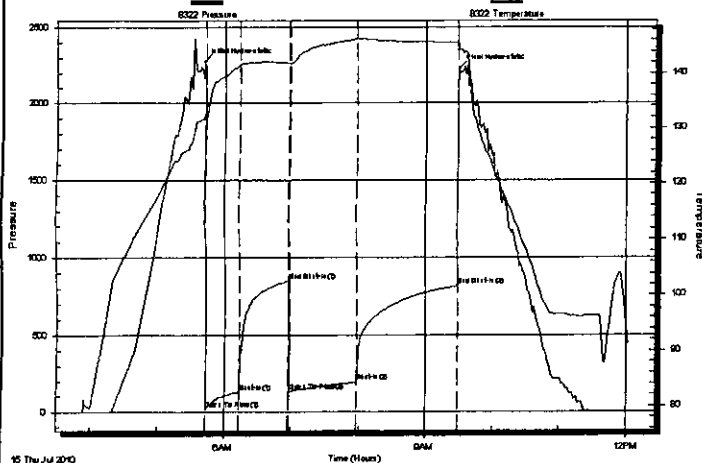
IF: BOB in 18 mins.

IS: Built to 1 inch died back to a weak surface blow.

FF: BOB in 22 mins.

FS: Built to 2 inches died in 56 mins.

Pressure vs. Time



PRESSURE SUMMARY

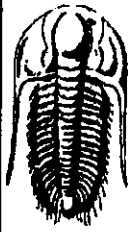
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2275.53	132.18	Initial Hydro-static
2	19.19	132.08	Open To Flow (1)
32	126.49	141.41	Shut-In(1)
76	852.47	141.94	End Shut-In(1)
77	135.31	141.72	Open To Flow (2)
137	195.90	146.21	Shut-In(2)
228	818.59	145.57	End Shut-In(2)
229	2225.91	144.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	M 100% m	0.15
156.00	O&MCW 10%o 60%w 30%m	0.77
124.00	HW&OCM 10%o 20%w 70%m	1.24
150.00	CG&O 10%g 90%o	2.10
0.00	GP = 400FT	0.00
0.00	API = 34@90F = 31 corrected	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources

Dearden #2B-16-1931

410 17th ST, STE 900
Denver CO 80202

16-19-31w Scott KS

Job Ticket: 39192

DST#: 5

ATTN: Josh Austin

Test Start: 2010.07.15 @ 03:53:00

Tool Information

Drill Pipe:	Length: 4331.00 ft	Diameter: 3.80 inches	Volume: 60.75 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: 241.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4575.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	4603.00 ft			
Interval between Packers:	28.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4561.00	
Shut In Tool	5.00			4566.00	
Hydraulic tool	5.00			4571.00	
Packer	4.00			4575.00	15.00 Bottom Of Top Packer
Stubb	1.00			4576.00	
Recorder	0.00	8322	Inside	4576.00	
Recorder	0.00	8166	Inside	4576.00	
Perforations	23.00			4599.00	
Blank Off Sub	1.00			4600.00	
Top of packer	3.00			4603.00	
Packer	1.00			4604.00	
Stubb	1.00			4605.00	28.00 Tool Interval
Packer	5.00			4610.00	
Blank Spacing	8.00			4618.00	
Recorder	0.00	8358	Below	4618.00	
Bullnose	3.00			4621.00	18.00 Bottom Packers & Anchor
Total Tool Length:	61.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources

Dearden #2B-16-1931

410 17th ST, STE 900
Denver CO 80202

16-19-31w Scott KS

Job Ticket: 39192

DST#: 5

ATTN: Josh Austin

Test Start: 2010.07.15 @ 03:53:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

34000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.56 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	M 100% m	0.148
156.00	O&MCW 10% o 60% w 30% m	0.767
124.00	HW&OCM 10% o 20% w 70% m	1.238
150.00	CG&O 10% g 90% o	2.104
0.00	GIP = 400FT	0.000
0.00	API = 34@90F = 31 corrected	0.000
0.00	RW = .164@90F = 34000 ppm	0.000

Total Length: 460.00 ft

Total Volume: 4.257 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

