



KANSAS CORPORATION COMMISSION 1082350
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5135
Name: Farmer, John O., Inc.
Address 1: 370 W WICHITA AVE
Address 2: PO BOX 352
City: RUSSELL State: KS Zip: 67665 + 2635
Contact Person: Marge Schulte
Phone: (785) 483-3144
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Austin Klaus
Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
 Gas D&A ENHR SIGW
 OG GSW Temp. Abd.
 CM (Coal Bed Methane)
 Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>04/6/2012</u>	<u>04/12/2012</u>	<u>04/13/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-163-24019-00-00

Spot Description: E2 SW SW SE

E2 SW SW SE Sec. 27 Twp. 7 S. R. 17 East West

330 Feet from North / South Line of Section

2000 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Rooks

Lease Name: Caughlin Well #: 1

Field Name: (wildcat)

Producing Formation: None

Elevation: Ground: 1857 Kelly Bushing: 1865

Total Depth: 3275 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 1189 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: 18000 ppm Fluid volume: 160 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: RGN Company, Inc.

Lease Name: Albright #1 (SWD) License #: 33007

Quarter NE Sec. 36 Twp. 7 S. R. 18 East West

County: Rooks Permit #: D-21,754

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: Deanna Garrison Date: 05/30/2012



1082350

Operator Name: Farmer, John O., Inc. Lease Name: Caughlin Well #: 1
 Sec. 27 Twp. 7 S. R. 17 East West County: Rooks

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional Sheets)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name Attached	Top Attached	Datum Attached
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Submitted Electronically (If no, Submit Copy)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				
Micro Resistivity Log Compensated Density Neutron Log Dual Induction Log				

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
Conductor	17.25	13.375	48	98	Common	100	3% CC, 2% gel
Surface	12.25	8.625	23	1189	Common	450	3% CC, 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing				
___ Plug Back TD	-			
___ Plug Off Zone	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Caughlin 1
Doc ID	1082350

Tops

Name	Top	Datum
Anhydrite	1187'	(+678)
Base/Anhydrite	1218'	(+647)
Topeka	2728'	(-863)
Heebner	2940'	(-1075)
Toronto	2962'	(-1097)
Lansing	2983'	(-1118)
Base/KC	3224'	(-1359)
L.T.D.	3275'	(-1410)



Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

DRILLER'S LOG

Operator: John O. Farmer, Inc. Lic# 5135 Contractor: Discovery Drilling Co., Inc. LIC#31548
370 West Wichita Avenue - P.O. Box 352 PO Box 763
Russell, KS 67665 Hays, KS. 67601

Lease: Caughlin # 1 Location: E/2-SW-SW-SE
Section 27/ 7S/ 17W
Rooks Co., KS

Loggers Total Depth: 3275' API#15- 163-24,019-00-00
Rotary Total Depth: 3275' Elevation: 1857 GL / 1865 KB
Commenced: 4/7/2012 Completed: 4/13/2012
Casing: 13 3/8" @ 98'W/100sks Status: D & A
8 5/8" @ 1189'W/450sks

DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>1221'</u>
Dakota Sand	<u>424'</u>	Shale & Lime	<u>1736'</u>
Shale	<u>524'</u>	Shale	<u>2087'</u>
Cedar Hill Sand	<u>699'</u>	Shale & Lime	<u>2525'</u>
Red Bed Shale	<u>888'</u>	Lime & Shale	<u>2888'</u>
Anhydrite	<u>1178'</u>	RTD	<u>3275'</u>
Base Anhydrite	<u>1221'</u>		

STATE OF KANSAS))
) ss
COUNTY OF ELLIS))

Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

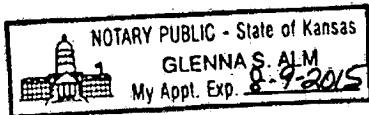
Thomas H. Alm

Subscribed and sworn to before me on 4-24-2012

My Commission expires: 8-9-2015

(Place stamp or seal below)

Notary Public



ALLIED OIL & GAS SERVICES, LLC 056379

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

POINT:

Purcell Ks
4-7412 MIDNIGHT

DATE <i>4-6-12</i>	SEC <i>22</i>	TWP <i>7 S</i>	RANGE <i>17W</i>	CALLED OUT	ON LOCATION	JOB START <i>11:30 PM</i>	JOB FINISH <i>12:00 PM</i>
LEASE <i>CAUGHIN</i>	WELL # <i>1</i>	LOCATION <i>Stockton 15 E 1/2 N 6 E</i>			COUNTY <i>Rooks</i>	STATE <i>Ks.</i>	
OLD OR NEW (Circle one)			<i>2 N IN</i>				

CONTRACTOR *Discaway Rig #3* OWNER _____

TYPE OF JOB *Conduct dr*

HOLE SIZE *17 1/4* ID *9 9'*

CASING SIZE *13 3/8* DEPTH *(98')*

TUBING SIZE *4 5/8 New* DEPTH _____

DRILL PIPE DEPTH _____

TOOL DEPTH _____

PRES. MAX MINIMUM _____

MEAS. LINE SHOE JOINT _____

CEMENT LEFT IN CSG. *6-8'*

PERFS. _____

DISPLACEMENT *14 3/4 BBL*

CEMENT AMOUNT ORDERED *100 SX Comm.*

3% CC

2% GEL

COMMON <i>100 SX</i>	@ <i>16.25</i>	<i>1625.00</i>
POZMIX	@	
GEL <i>2 SX</i>	@ <i>21.25</i>	<i>42.50</i>
CHLORIDE <i>3 SX</i>	@ <i>58.20</i>	<i>174.60</i>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <i>105 Tons SX</i>	@ <i>min</i>	<i>347.00</i>
MILEAGE <i>75 Ton Mile</i>	@ <i>119</i>	<i>8925.00</i>
TOTAL		<i>3052.35</i>

EQUIPMENT

PUMP TRUCK CEMENTER *Glennd Gr.*

417 HELPER *ROBERT Y*

BULK TRUCK # *481* DRIVER *Chris G.*

BULK TRUCK # _____ DRIVER _____

REMARKS:

Ran 2 New Joints of 13 3/8

Set @ 98' + Circulate

Cement w/ 100 sx cam 3+2,

Displace 14 3/4 BBL + Shut IN

@ 200 #

Concent Did Circulate

TO SURFACE

MARK'S

SERVICE

DEPTH OF JOB <i>100'</i>	
PUMP TRUCK CHARGE	<i>1125.00</i>
EXTRA FOOTAGE	@
MILEAGE <i>75 HV MI</i>	@ <i>7.00</i> <i>525.00</i>
MANIFOLD	@
<i>75 LV MI</i>	@ <i>4.00</i> <i>300.00</i>
TOTAL <i>1950.00</i>	

CHARGE TO: *John V. Farmer*

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

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

To: Allied Oil & Gas Services, 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) *116.05*

TOTAL CHARGES *5002.35*

DISCOUNT *20/50* *1507.84* IF PAID IN 30 DAYS

PRINTED NAME *GALEN GASCHLER*

SIGNATURE *Galen Gaschler*

ALLIED OIL & GAS SERVICES, LLC 056381

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

SERVICE POINT:
Russell Ks.

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
4-8-12	27	9	17			3:00 PM	2:30 PM
LEASE	C <small>ATCH</small> N	WELL#	1	LOCATION	Stockton Ks. 1S 1 1/2 E 2 N	C <small>OUNTY</small>	Rooks
OLD OR <input checked="" type="checkbox"/> NEW	(Circle one)					S <small>TATE</small>	Kansas

CONTRACTOR Discovery Rig # 3 OWNER _____
 TYPE OF JOB Long Surface
 HOLE SIZE 12 1/4 T.D. 1189
 CASING SIZE 8 3/8 New DEPTH 1189
 TUBING SIZE 2 3/4 CSG DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL BAFFLE Plate DEPTH 1157
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 92'
 CEMENT LEFT IN CSG. 32'
 PERFS. _____
 DISPLACEMENT 73.1 / 138L

CEMENT AMOUNT ORDERED 4.5000 SX Comm.
3% cc
2% Gel

COMMON	<u>450</u> SX	@	<u>16.50</u>	<u>7425.00</u>
POZMIX		@		
GEL	<u>0</u> SX	@	<u>21.25</u>	<u>191.25</u>
CHLORIDE	<u>14</u> SX	@	<u>58.20</u>	<u>814.80</u>
ASC		@		
473 TOTAL SX @				
HANDLING	<u>1.125</u>	@	<u>2.125</u>	<u>1064.25</u>
MILEAGE	<u>75</u> Ton Mile	@	<u>5.100</u>	<u>382.50</u>
TOTAL 12397.55				

REMARKS:

Ran 2 BTT'S OF New 23" 8 3/8 CSG.
Set @ 1189. Reviewed Circulation
Cement w/ 4.5000 SX Comm. 3% cc + 2% Gel
Release Solid Rubber Plug + Displace
73.39 BBL H₂O L&D Plug on BAFFLE
Plate @ 1000 # + Shut IN.
Cement did Circulate
TO Surface

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>1425.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>75</u> MI	@	<u>2.00</u>
MANIFOLD		@	
	<u>LV MI 75</u>	@	<u>4.00</u>
		@	

TOTAL 2750.00

CHARGE TO: JOHN O. FARMER
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@
	@
	@
	@
	@

TOTAL _____

To: Allied Oil & Gas Services, 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) 531.15
 TOTAL CHARGES 16147.55
 DISCOUNT 20/50 4647.68 IF PAID IN 30 DAYS

PRINTED NAME GREEN ENSCHLER
 SIGNATURE [Signature]

ALLIED CEMENTING CO., LLC. 034647

REMIT TO P.O. BOX 3
RUSSELL, KANSAS 67665

SERVICE POINT:
RUSSELL

DATE <u>4-13-12</u>	SEC <u>27</u>	TWP. <u>7</u>	RANGE <u>17</u>	CALLED OUT	ON LOCATION	JOB START <u>9:30 PM</u>	JOB FINISH <u>10 PM</u>
LEASE <u>CANWIN</u>		WELL # <u>1</u>		LOCATION <u>STOCKTON KS 1 1/2 E 1/2 N</u>		COUNTY <u>ROOKS</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>OLD</u>				GE - 2 1/2" INTO			

CONTRACTOR Discovery #3 OWNER _____

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. _____ CEMENT AMOUNT ORDERED 210 SK @ 40 480 CF

CASING SIZE 8 7/8 DEPTH 1189'

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 1235'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 210 SK

PERFS. _____

DISPLACEMENT _____

EQUIPMENT

PUMP TRUCK CEMENTER BOB S.
409 HELPER TONY
BULK TRUCK
410 DRIVER CHRIS S
BULK TRUCK
_____ DRIVER _____

COMMON	<u>126</u>	@	<u>16.25</u>	<u>2047.5</u>
POZMIX	<u>84</u>	@	<u>8.50</u>	<u>714.00</u>
GEL	<u>7</u>	@	<u>21.25</u>	<u>148.75</u>
CHLORIDE		@		
ASC		@		
<u>FLO-SCAL</u>	<u>50*</u>	@	<u>2.70</u>	<u>135.00</u>
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>219</u>	@	<u>2.25</u>	<u>492.75</u>
MILEAGE	<u>75 X 219 X .11</u>			<u>1806.75</u>
TOTAL				<u>5344.75</u>

REMARKS:

P1 - 1235' - 40 SK
P2 - 730' - 100 SK
P3 - 90' - 25 SK
RAT - 30 SK
mouse - 15 SK

SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE:				<u>1250.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>H 75</u>	@	<u>7.00</u>	<u>525.00</u>
MANIFOLD		@		
<u>LOLV m 75</u>		@	<u>4.00</u>	<u>300.00</u>
		@		

TOTAL 2075.00

PLUG & FLOAT EQUIPMENT

_____	@		
_____	@		
_____	@		
_____	@		
_____	@		

TOTAL 0

CHARGE TO: JOHN O FARMER
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.

SALES TAX (if Any) 467.44
TOTAL CHARGES 7419.75
DISCOUNT 20/50 2273.47 IF PAID IN 30 DAYS

PRINTED NAME GALFN GASCHLER

SIGNATURE John Farmer



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O. Farmer Inc

27-7s-17w Rooks, KS

370 N. Wichita Ave,
Russell KS, 67665

Caughlin #1

Job Ticket: 46308

DST#: 1

ATTN: Austin Klaus

Test Start: 2012.04.11 @ 13:45:00

GENERAL INFORMATION:

Formation: Toronto - KC "D"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:33:00

Time Test Ended: 20:05:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 44

Interval: 2930.00 ft (KB) To 3055.00 ft (KB) (TVD)

Reference Elevations: 1865.00 ft (KB)

Total Depth: 3055.00 ft (KB) (TVD)

1857.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8737

Outside

Press@RunDepth: 84.50 psig @ 3027.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.11

End Date:

2012.04.11

Last Calib.: 2012.04.11

Start Time: 13:45:00

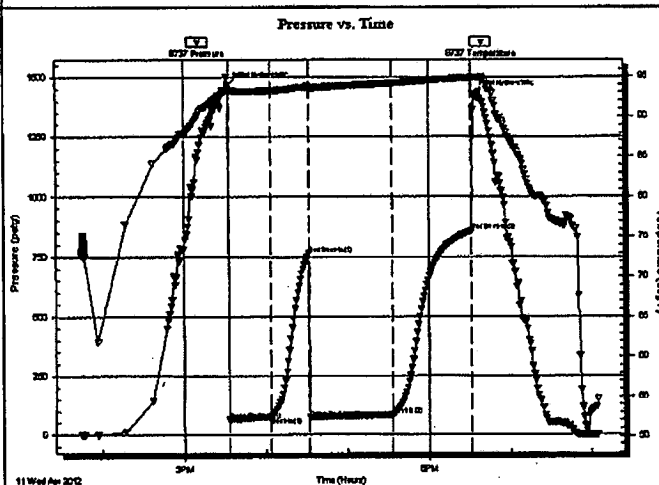
End Time:

20:05:00

Time On Btm: 2012.04.11 @ 15:32:30

Time Off Btm: 2012.04.11 @ 18:33:00

TEST COMMENT: 30 - IF- 2 1/2" blow
30 - IS- No blow back
60 - FF- 4" blow
60 - FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1465.94	93.51	Initial Hydro-static
1	63.90	93.30	Open To Flow (1)
31	76.67	93.28	Shut-In(1)
59	762.18	93.71	End Shut-In(1)
60	72.77	93.56	Open To Flow (2)
121	84.50	94.17	Shut-In(2)
179	857.29	94.85	End Shut-In(2)
181	1430.41	94.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	GHOCM, 10%G, 30%O, 60%M	0.49
0.00	62' of G.I.P.	0.00

Gas Rates

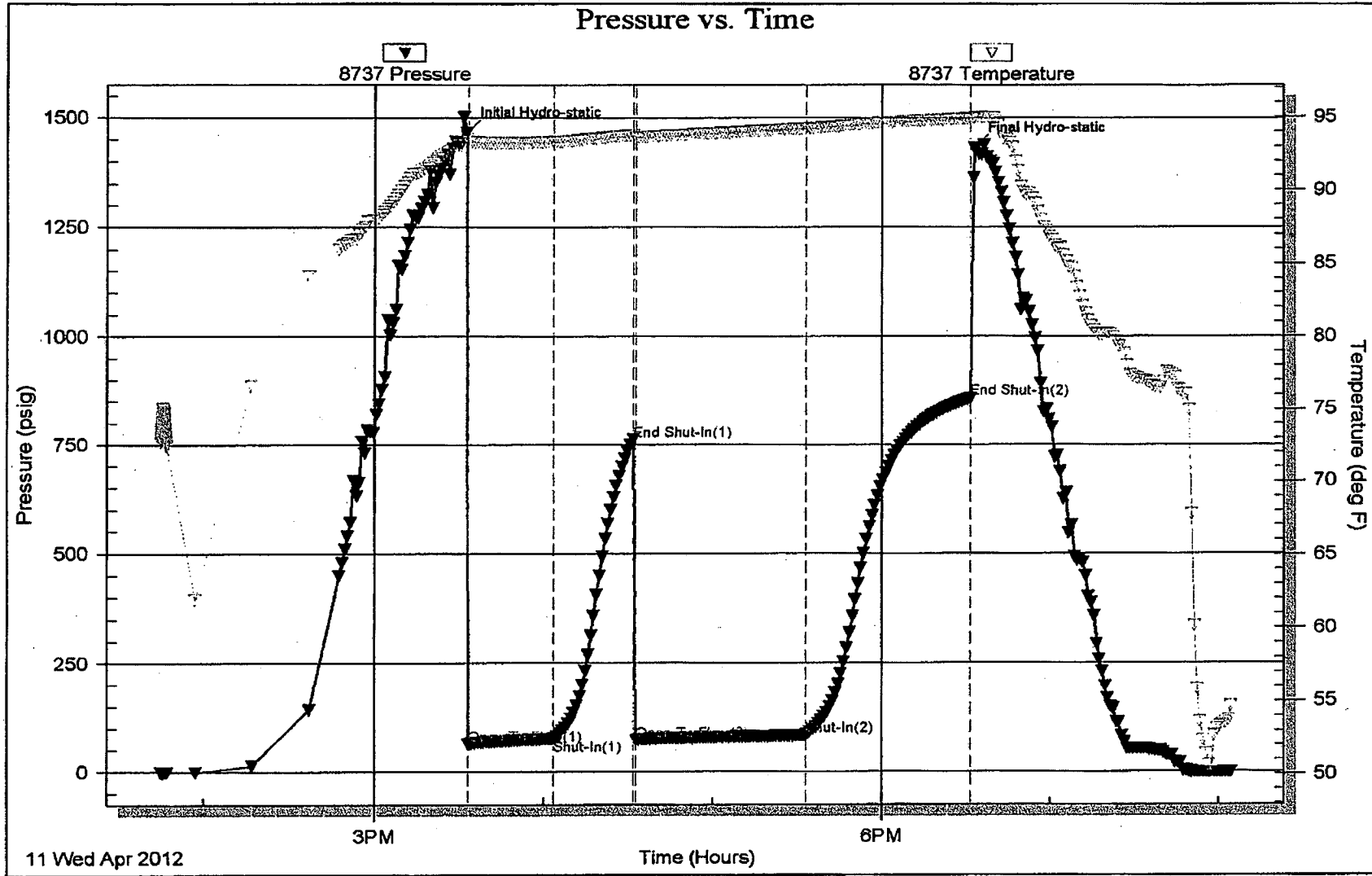
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

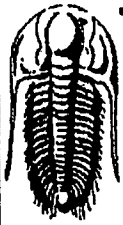
Serial #: 8737

Outside John O. Farmer Inc

Caughin #1

DST Test Number: 1





**TRIOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O. Farmer Inc
370 N. Wichita Ave,
Russell KS, 67665
ATTN: Austin Klaus

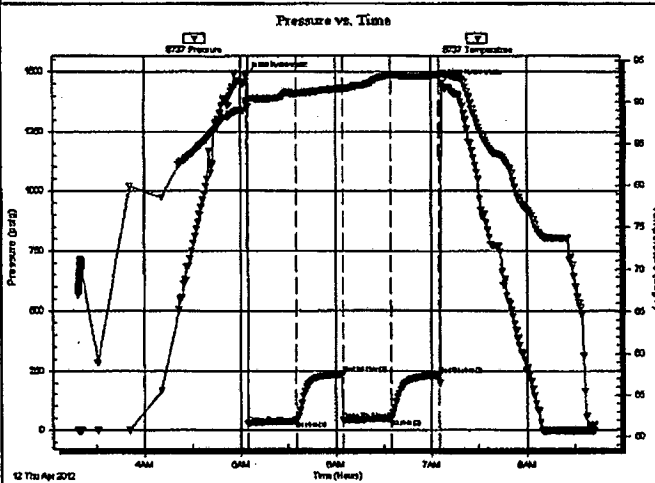
27-7s-17w Rooks, KS
Caughlin #1
Job Ticket: 46309 DST#: 2
Test Start: 2012.04.12 @ 03:19:00

GENERAL INFORMATION:

Formation: LKC "E-G"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:04:30
Time Test Ended: 08:42:30
Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 44
Interval: 3052.00 ft (KB) To 3096.00 ft (KB) (TVD)
Reference Elevations: 1865.00 ft (KB)
Total Depth: 3096.00 ft (KB) (TVD) 1857.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8737 Outside
Press@RunDepth: 47.96 psig @ 3088.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.04.12 End Date: 2012.04.12 Last Calib.: 2012.04.12
Start Time: 03:19:00 End Time: 08:42:30 Time On Btm: 2012.04.12 @ 05:04:00
Time Off Btm: 2012.04.12 @ 07:06:30

TEST COMMENT: 30 - IF- 1 1/4" blow
30 - IS- No blow back
30 - FF- 1/4" blow
30 - FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1486.87	90.10	Initial Hydro-static
1	27.85	89.45	Open To Flow (1)
31	41.12	91.07	Shut-in(1)
60	236.34	91.65	End Shut-in(1)
61	42.10	91.55	Open To Flow (2)
90	47.96	93.23	Shut-in(2)
121	232.78	93.23	End Shut-in(2)
123	1452.92	93.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	GM - Oil Scum, 5%G, 95%M	0.21

* Recovery from multiple tests

Gas Rates

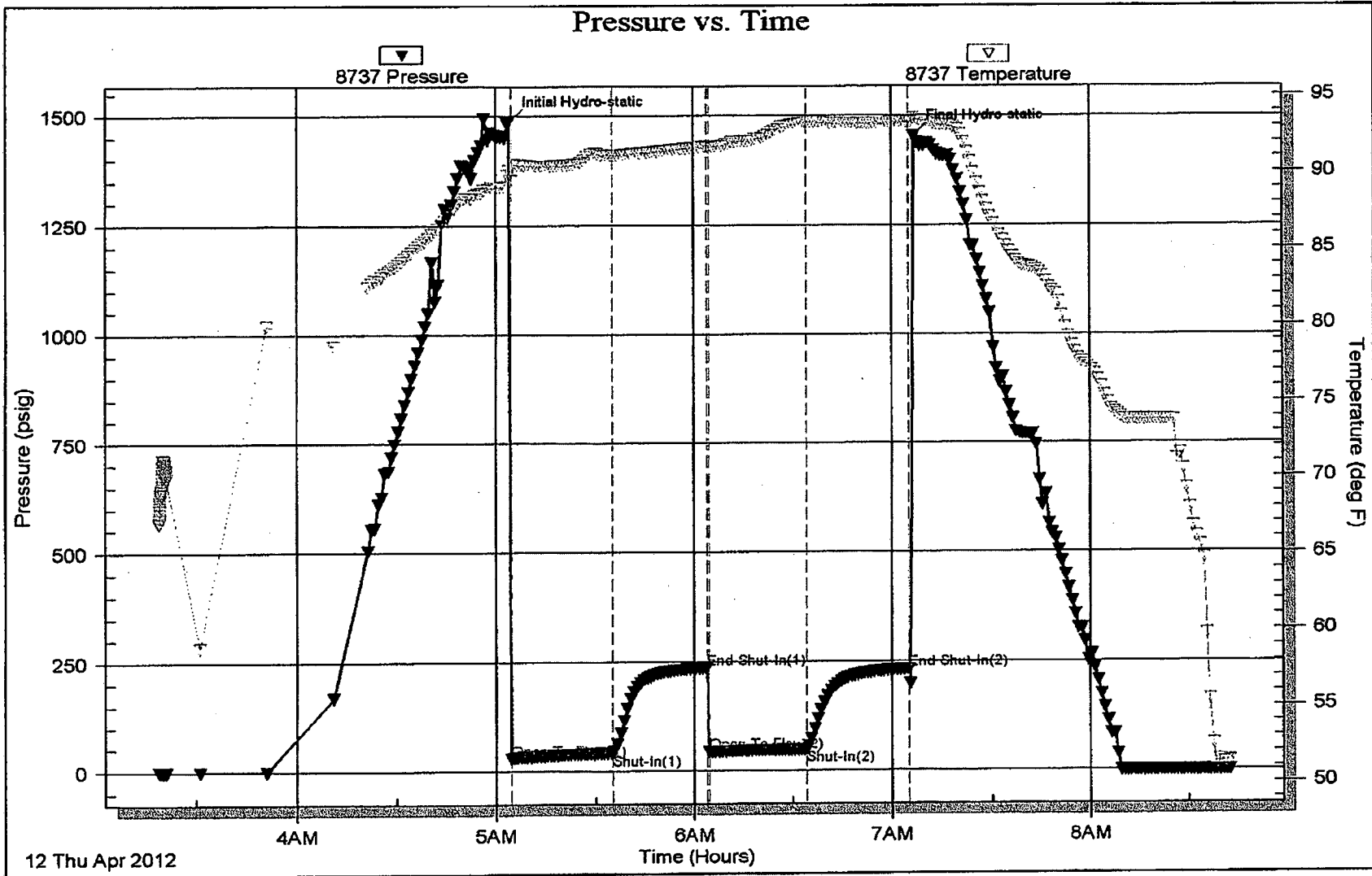
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

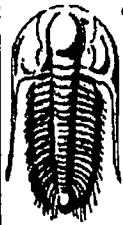
Serial #: 8737

Outside John O. Farmer Inc

Caught In #1

DST Test Number: 2





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O. Farmer Inc

27-7s-17w Rooks, KS

370 N. Wichita Ave,
Russell KS, 67665

Caughlin #1

Job Ticket: 46310

DST#: 3

ATTN: Austin Klaus

Test Start: 2012.04.13 @ 04:28:00

GENERAL INFORMATION:

Formation: KC "I,J"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:09:00

Time Test Ended: 10:13:30

Test Type: Conventional Straddle (Reset)

Tester: Cody Bloedorn

Unit No: 44

Interval: 3128.00 ft (KB) To 3195.00 ft (KB) (TVD)

Total Depth: 3275.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1865.00 ft (KB)

1857.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8737

Outside

Press@RunDepth: 64.80 psig @ 3164.00 ft (KB)

Start Date: 2012.04.13

End Date:

2012.04.13

Capacity: 8000.00 psig

Last Calib.: 2012.04.13

Start Time: 04:28:00

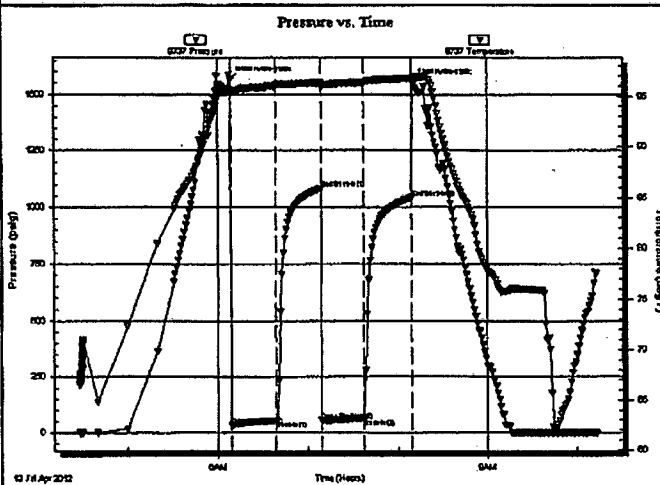
End Time:

10:13:30

Time On Btm: 2012.04.13 @ 06:08:30

Time Off Btm: 2012.04.13 @ 08:10:00

TEST COMMENT: 30 - IF- 1 1/2" blow
30 - IS- No blow back
FF- 1 1/2" blow
FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1564.78	95.61	Initial Hydro-static
1	33.55	95.29	Open To Flow (1)
30	55.83	96.07	Shut-in(1)
60	1083.70	96.31	End Shut-in(1)
61	56.56	95.85	Open To Flow (2)
89	64.80	96.32	Shut-in(2)
121	1044.03	96.71	End Shut-in(2)
122	1551.78	96.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	Mud, Oil scum, 100%M	0.77

* Recovery from multiple tests

Gas Rates

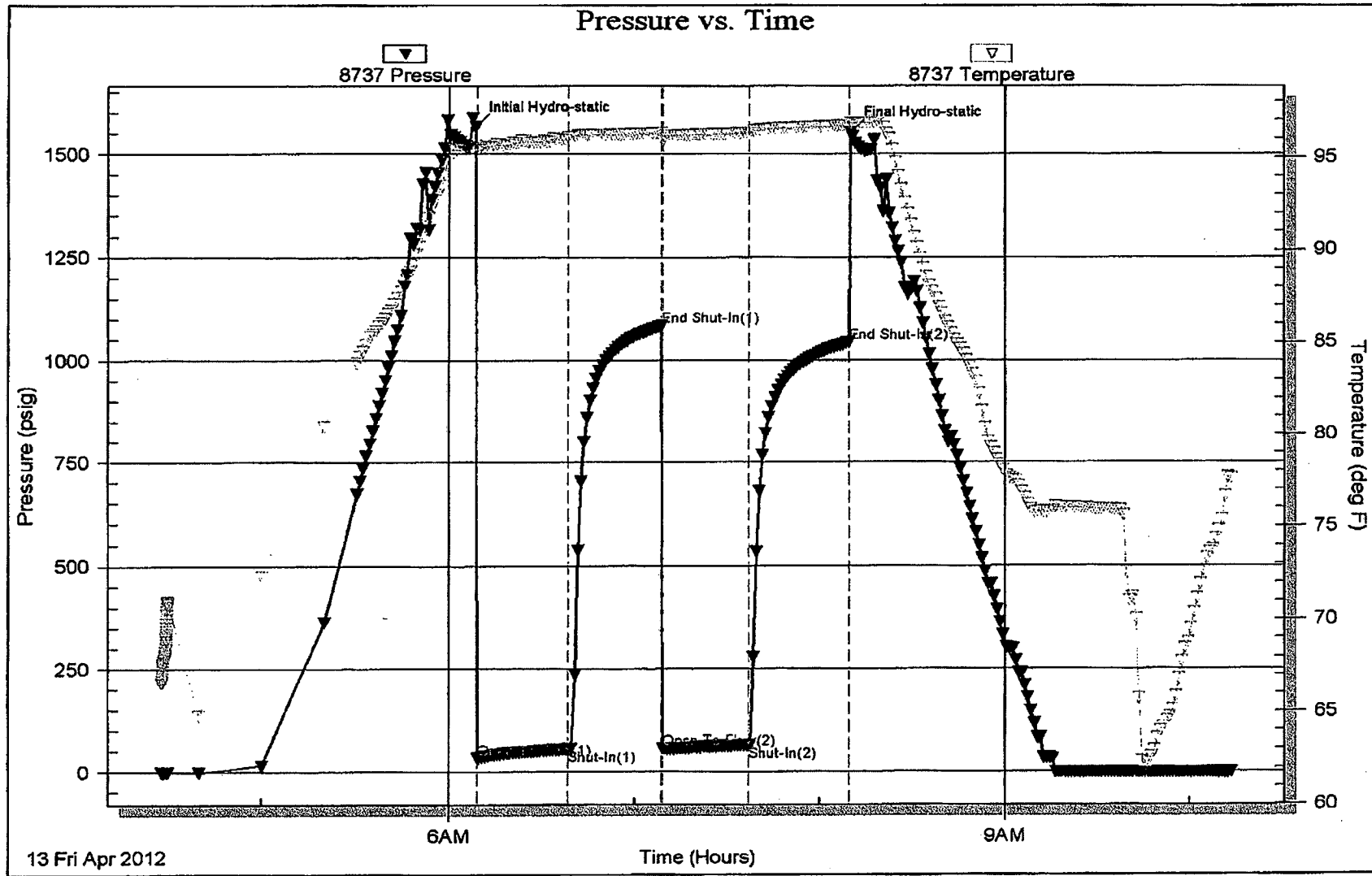
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Serial #: 8737

Outside John O. Farmer Inc

CaughtIn #1

DST Test Number: 3



JOHN O. FARMER, INC.

P.O. BOX 352
RUSSELL, KANSAS 67665

785-483-3144

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY <u>John O. Farmer Inc.</u> LEASE <u>Caughlin #1</u> FIELD <u>Wildcat</u> LOCATION <u>330' FSL 2000' FEL</u> SEC <u>27</u> TWP <u>7S</u> RGE <u>17W</u> COUNTY <u>Rooks</u> STATE <u>Kansas</u>	ELEVATIONS KB <u>1865</u> DF _____ GL <u>1857</u> Measurements Are All From <u>Kelly Bushing</u>
CONTRACTOR <u>Discovery Drilling Rig #3</u> SPUD <u>4/6/12</u> COMP <u>4/13/12</u> RTD <u>3275'</u> LTD <u>3275'</u> MUD UP <u>2500'</u> TYPE MUD <u>Chemical</u>	SURFACE <u>CASING 8 5/8" @ 1189</u> PRODUCTION <u>none</u> ELECTRICAL SURVEYS CDL/CNL DIL MEL

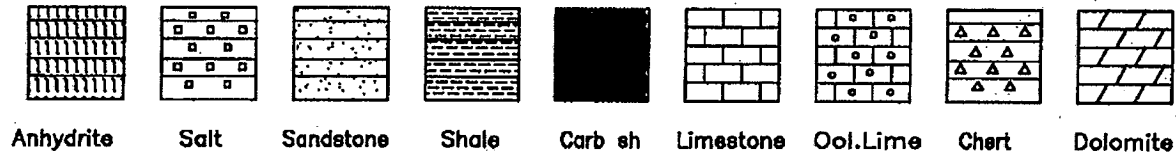
SAMPLES SAVED FROM <u>2650'</u>	TO <u>RTD</u>
DRILLING TIME KEPT FROM <u>2600</u>	TO <u>RTD</u>
SAMPLES EXAMINED FROM <u>2650'</u>	TO <u>RTD</u>
GEOLOGICAL SUPERVISION FROM <u>2700'</u>	TO <u>RTD</u>
GEOLOGIST ON WELL <u>3:30 pm 4/10/12 - 9:00 am 4/13/12</u>	

FORMATION TOPS	LOG		SAMPLES			
Anhydrite	1187	+678	1178	+687	TTS	RTW
Base	1218	+647	1221	+644		
Topoka	2728	-863	2728	-863	27	
Heebner	2940	-1075	2941	-1076		
Toronto	2962	-1097	2962	-1097		
Lansing	2983	-1118	2984	-1119		
Bkz	3224	-1359	3224	-1359		
Arbuckle	—	—	—	—	←	
RTD	3275	-1410	3275	-1410		

FARM 05_06

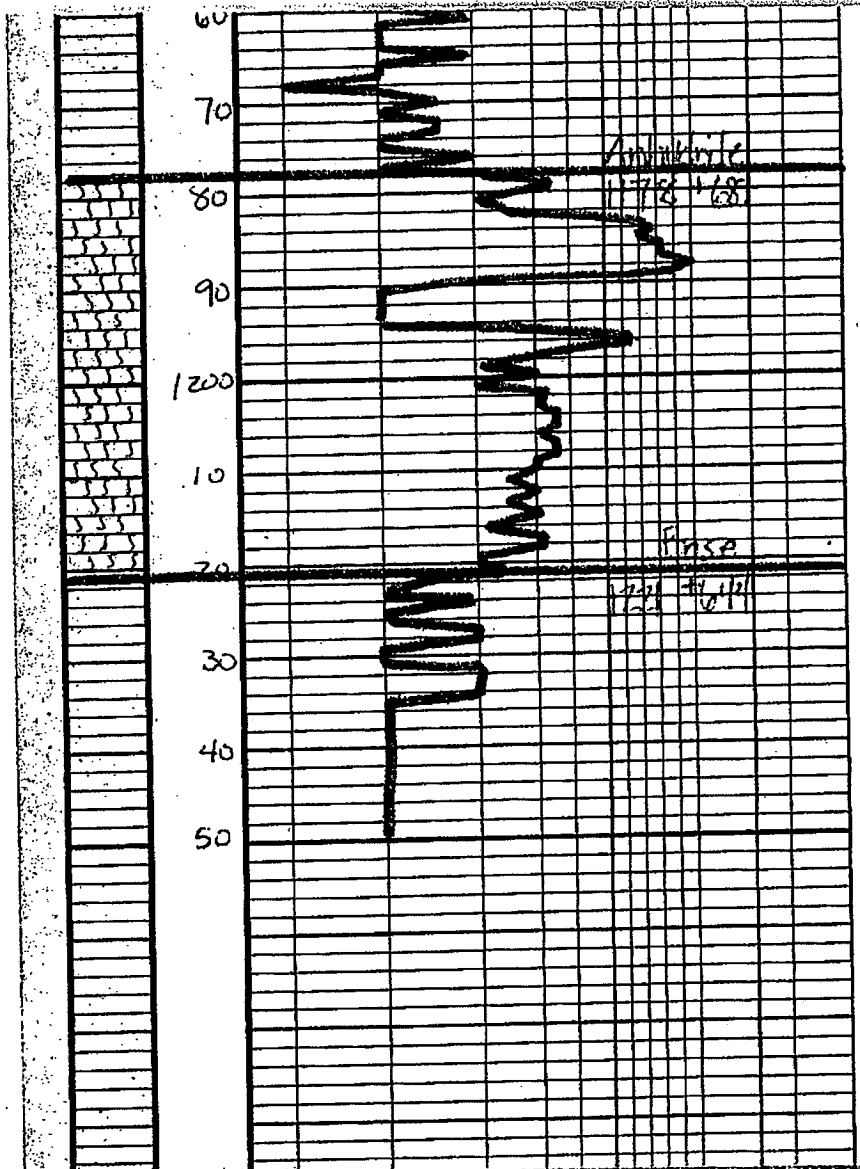
DAILY PROGRESS	BIT RECORD	REMARKS
4/10/12 - Examined samples: 2650 - 2770	13 3/8" @ 98' 8 5/8" @ 1179'	
4/11/12 - Examined samples: 2770 - 3065		
Ordered test #1 2930-3055 (TRNT - LKc D)		
Examined samples: 3055-3096		
4/12/12 - Ordered DST # 2 3052 - 3096 (LKc E-G)		
Examined samples: 3096 - 3275		
4/13/12 - Examined E-legs		

LEGEND



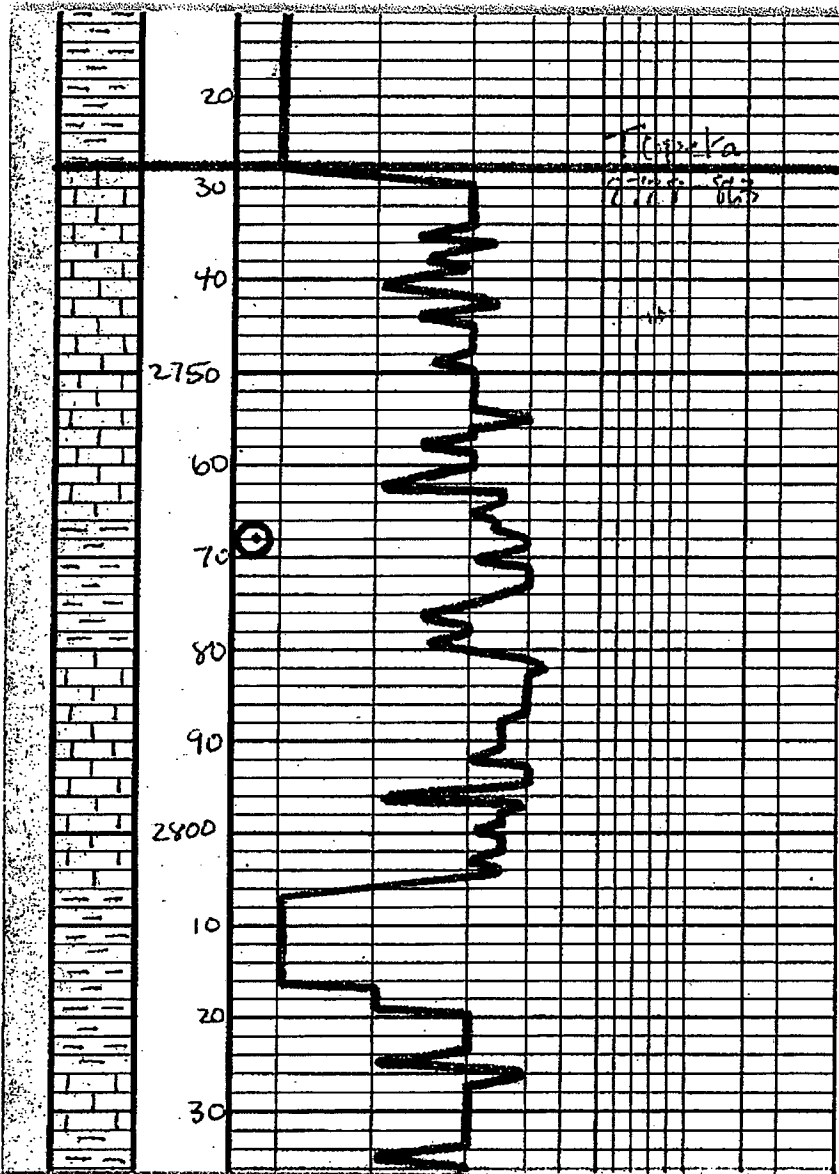
LITHOLOGY	DEPTH	DRILLING TIME (Logarithmic Scale)											SAMPLE DESCRIPTIONS	REMARKS	
		.5	1	2	3	4	5	10	15	20	30				

Geo on location
@ 3:30 p.m.
4/10/12



Mud Engineer:
Ken Rupp

Tester: Cody Blaker



Sh - ala

ls - tan - Gray, Fin - sub xln
mostly DKS kl. Fossil

ls - ala

ls - tan - Lt. Gray, Fin xln
w/ scat. dimorph. lugs & vry
lt. sil. st. NSEFC

Sh - Dk Gray, very soft

wt: 8.7
Jis: 54

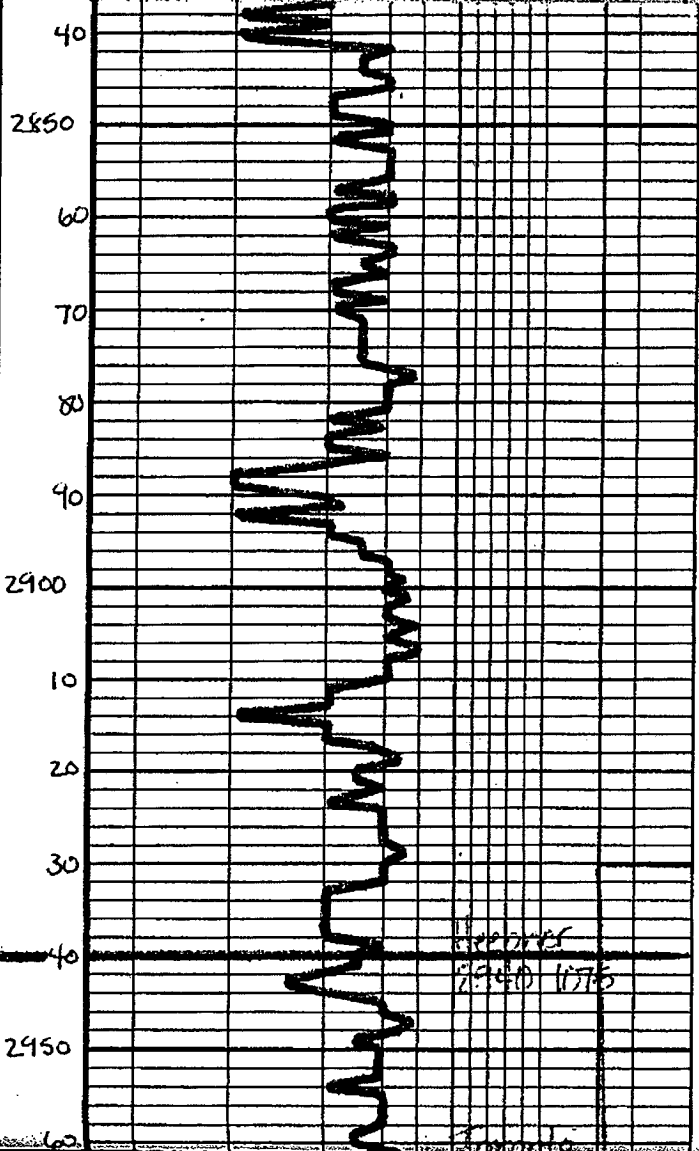
ls - tan - Lt. Gray, Fin - sub xln
DKS sh. Fossil

ls - ala

Sh - silst. - Dk Gray - Ben
soft

Sh - ala

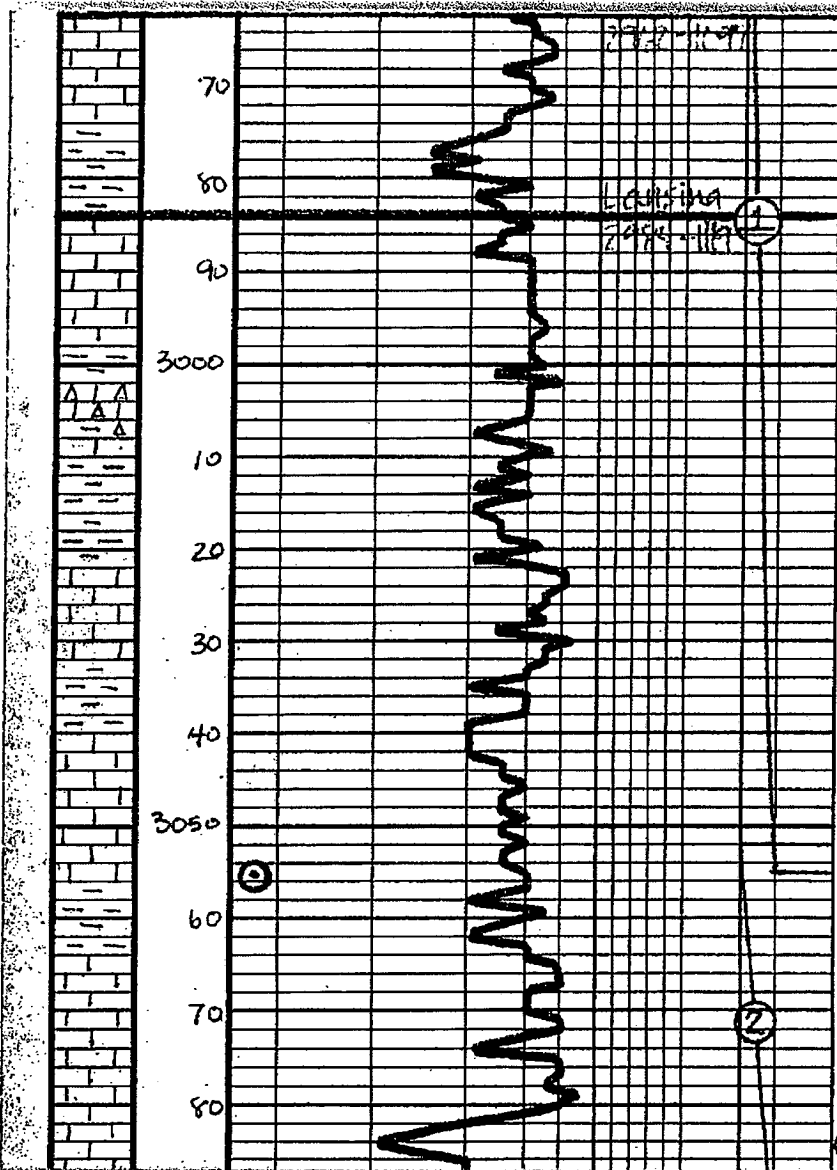
Sh - Blk Carb.



2850
 60
 70
 80
 90
 2900
 10
 20
 30
 40
 2950
 60

N-SEst Gray Blue
 Ls - off wh - Tan Fn - sub
 xln. mostly DWS
 Ls - ala
 Ls - off wh - Tan Fn - sub
 xln. mostly DWS sl. Fossil
 sl. A
 Ls - ala
 Ls - off wh - Tan Fn - sub
 sub xln. mostly DWS
 Ls - ala, Fossil
 Ls - Tan - Lt Gray Fn - sub
 xln. mostly DWS sl. Fossil
 SH - BRK. Carb Fossil
 Ls - Tan - off wh Fn sub
 xln. mostly DWS
 SH - BRK. Gray Blue

WT: 8.9
 Vis: 53
 DST #1
 TRNT - LKc D.
 2930' - 3055'
 30" - 30" - 60" - 60"
 IH: 1465#
 IF: 63-76#
 Built to 2 1/2"



LS - off wh - Tan En xln w/ scat. var. arg. of Lt. oil st. st. ASE: Enid

Sh - Lt Gray - Green - Ben soft

LS - off wh - Tan En xln w/ scat. var. arg. of Lt. oil st. st. ASE: Enid

Sh - Dk. Gray

LS - off wh. En - sub xln mostly dark brown Δ off wh

Sh - Gray - Ben - Green soft

LS - off wh - Tan En xln w/ scat. var. arg. of Lt. oil st. st. ASE: Enid

Sh - Gray - Ben soft

LS - off wh - Tan En xln w/ scat. var. arg. of Lt. oil st. st. ASE: Enid

Sh - Dk Gray - Ben - Green

LS - off wh - Tan En xln mostly dark

LS - off wh - Tan En - sub xln col w/ dark arg. of var. Lt oil st. ASE: Enid

LS - off wh - Tan En xln w/ scat. var. arg. of Lt. oil st. st. ASE: Enid

16' No Blow Bar
FF: 72-84 #

Built to 4"
FST: 857 #
No Blow Bar

FH: 1430 #

BHT: 94°

Rec: 55' GHOEM
30% O 60%

62' GIP

1000

750

500

250

0

Wt: 8.9

Vis: 52

DST # 2
LHC E - G
3052' - 3096'

50' - 50' - 50' - 30'

Int: 1486 #

IF: 27-41 #

Built to 1 1/2"

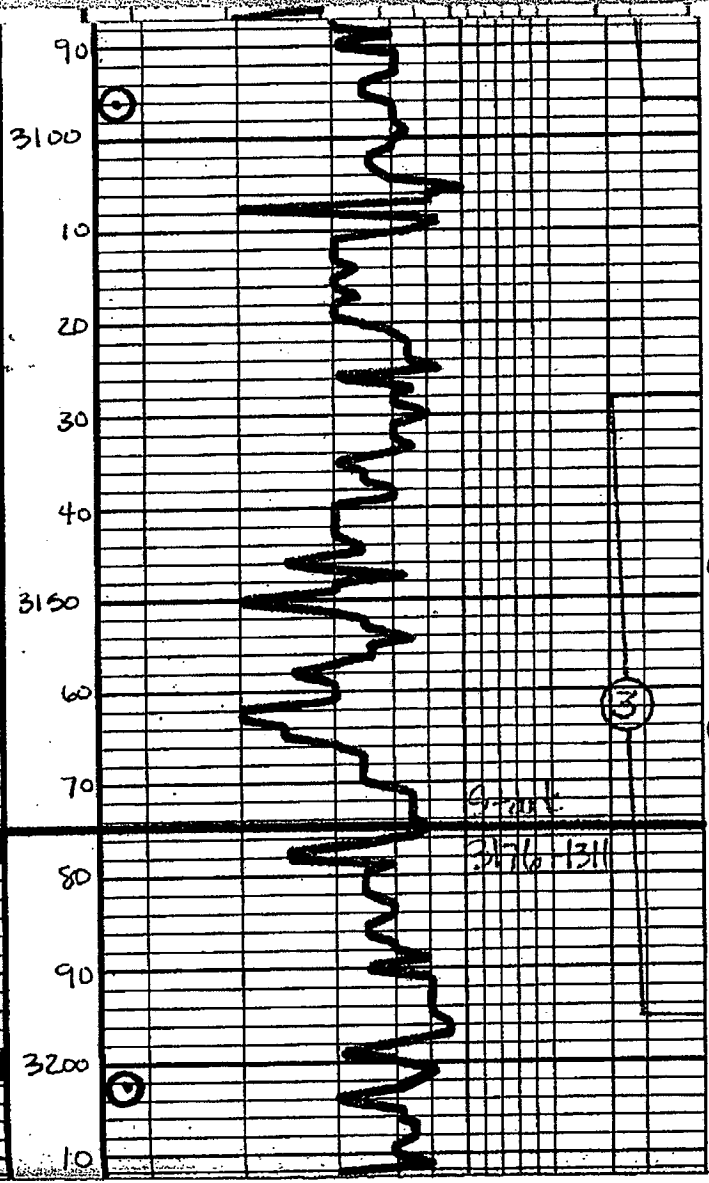
ISI: 236 #

FF: 42-47 #

Built to 1 1/2"

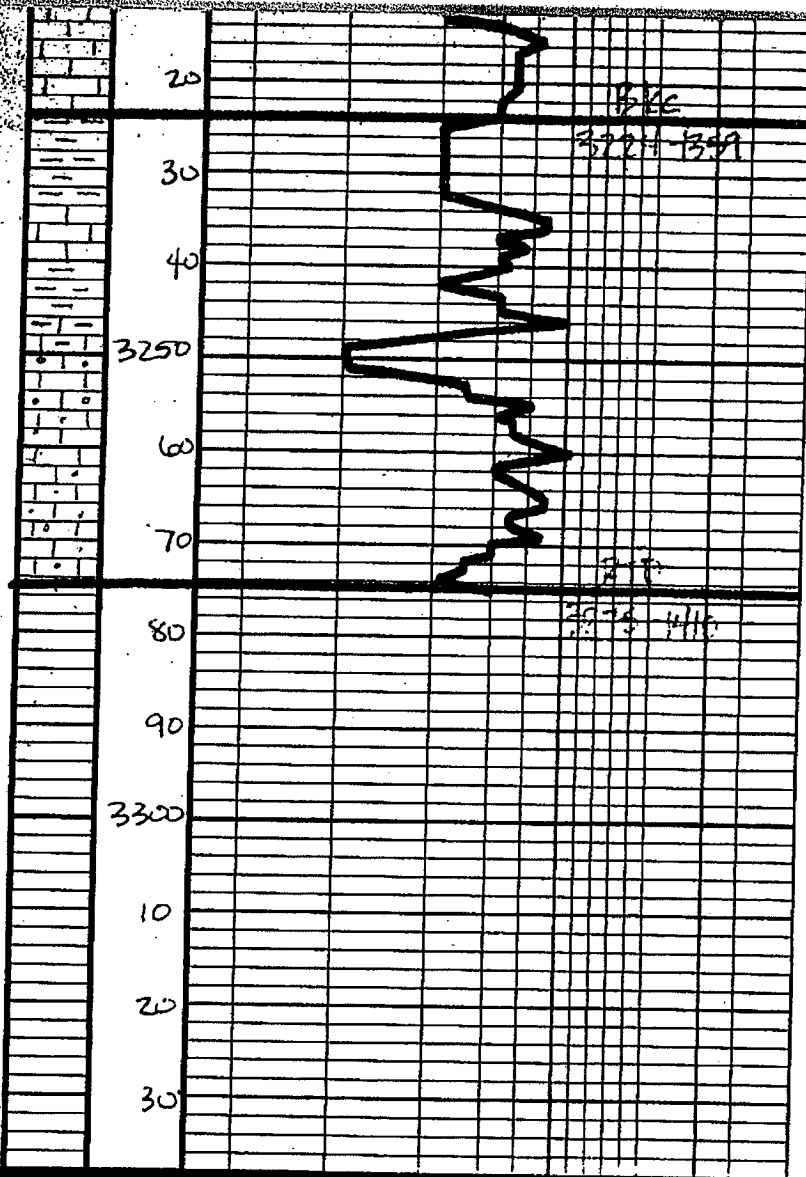
FST: 232 #

FH: 1430 #



For 4th Floor
 Ls - off wh - tan Fin - sub xln
 mostly 20% sl. Forst sl A off wh
 Sh - blk Carb
 Sh - blkst - Gray - Ben - Ora
 Ls - off wh - Tan - Lt Gray
 Fin - sub xln mostly blk heavy
 A off wh
 Sh - Dk Gray - Ben soft
 Ls - off wh - Tan. Fin xln w/lt
 seat approx 1/2" w/lt & some int. wh. sl
 Lt blkst. 1/2" Fin. sl. w/lt
 Sh - Dk Gray very soft
 Ls - off wh. Fin xln w/lt seat
 w/ seat. w/lt w/lt oil st. w/lt sl
 redd sl A off wh
 Sh - blk Carb
 Ls - off wh - Lt Gray. Fin xln
 w/ seat. w/lt w/lt oil st. w/lt
 NSFN heavy A off wh
 Sh - Dk Gray - blk

BHT: 95°
 Rec: 35' GM - oil sec
 5% Gr 95% M
 150
 500
 250
 Lt: 8.8
 Vis: 4.8
 DST # 3
 LKc 1 - J
 3128' - 3195'
 30' - 30' - 30' - 30'
 1st: 1564#
 1F: 33-55#
 Built to 1 1/2"
 1st: 1083# No Bars
 FF: 56-64#
 Built to 1 1/2"
 FSI: 1044#
 FH: 1551#
 BHT: 96°
 Rec: 75' Mud oil sec
 1000
 750
 500



LS - clay with - 1/2 clay - 1/2 siliceous
 in mostly Dal

Sh - siltst - Gray - Bon - Green
 siltst - very fine gr.

Sh - siliceous

Sh - Gray - Bon - very siltst - siltst -
 very fine gr.

siltst - Gray - siliceous - heavy &
 siltst - very fine gr.

Sh - siltst - Gray - Bon - Green - 1/2 lacustrine

Austin B. Klaus
 4/13/12 @ 9:00am