



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____-_____-_____- Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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



1082350

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	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

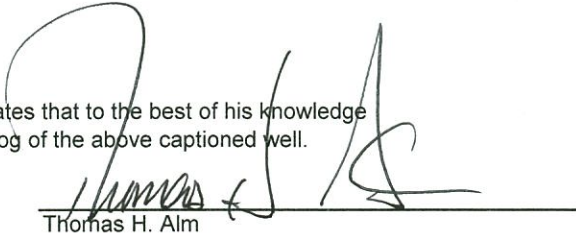
Loggers Total Depth: 3275' API#15- 163-24,019-00-00
Rotary Total Depth: 3275' Elevation: 1857 GL / 1865 KB
Commenced: 4/7/2012 Completed: 4/13/2012
Casing: 13 3/8" @ 98'W/100sks Status: D & A
8 5/8" @ 1189'W/450sks

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.

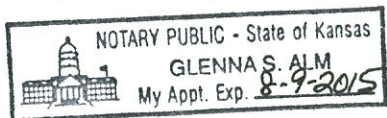

Thomas H. Alm

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

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Purcell KS
H-7412 MIDNIGHT

DATE 4-6-12	SEC. 27	TWP. 7 S	RANGE 17 W	CALLED OUT	ON LOCATION	JOB START 11:30 AM	JOB FINISH 12:00 AM
LEASE CAUGHN	WELL # 1	LOCATION STOCKTON 15 E YOU 6 E			COUNTY Reels	STATE KS	
OLD OR NEW (Circle one)				2 NEW			

CONTRACTOR Discovary Rig # 3	OWNER
TYPE OF JOB Conduct dr	
HOLE SIZE 17 1/4 TD 99'	CEMENT
CASING SIZE 13 3/8 DEPTH 98'	AMOUNT ORDERED 100 SX Com.
TUBING SIZE 4 1/2# New DEPTH	3% cc
DRILL PIPE DEPTH	2% GEL
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON 100 SX @ 16.25 1625.00
MEAS. LINE SHOE JOINT	POZMIX @
CEMENT LEFT IN CSG. 6-8'	GEL 2 SX @ 21.25 42.50
PERFS.	CHLORIDE 3 SX @ 58.20 174.60
DISPLACEMENT 14 3/4 BBL	ASC @
EQUIPMENT	@

PUMP TRUCK CEMENTER Glenn G.	
# 417 HELPER ROBERT Y	
BULK TRUCK	
# 481 DRIVER Chris G.	
BULK TRUCK	
# DRIVER	

HANDLING 105 Total SX @ min	344.00
MILEAGE 75 Ton Mile @ 114	866.25
TOTAL	3052.35

REMARKS:

Ran 2 New Joints of 13 3/8
Set @ 98' & Circulate
Cement w/ 100 sx com 3+2,
Displace 14 3/4 BBL + Shut in
@ 200 #.
Cement did circulate
to surface
THANK'S

SERVICE

DEPTH OF JOB 100'	
PUMP TRUCK CHARGE	1125.00
EXTRA FOOTAGE @	
MILEAGE 75 HU MI @ 7.00	525.00
MANIFOLD 75 LY MI @ 4.00	300.00

TOTAL 1950.00

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

PLUG & FLOAT EQUIPMENT

@	
@	
@	
@	
@	

TOTAL _____

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

Federal Tax I.D.# 20-5975804

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	7	17			3:00 PM	2:30 PM
LEASE <u>CAUGHLIN</u>	WELL# <u>1</u>	LOCATION <u>Stockton Ks. 1S 1/2E 1/4N</u>			COUNTY	STATE	
OLD OR <u>NEW</u> (Circle one)		<u>6 E 2 N</u>			<u>ROOKS</u>	<u>KANSAS</u>	

CONTRACTOR Discovery Rig # 3
 TYPE OF JOB Long Surface
 HOLE SIZE 12 1/4 T.D. 1189
 CASING SIZE 8 5/8 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 93.081 / 1 BBL

OWNER _____
 CEMENT AMOUNT ORDERED 4500# SX Comm.
3% CC
2% GEL
 COMMON 450 SX @ 16.50 7425.00
 POZMIX @ _____
 GEL 9 SX @ 21.25 191.25
 CHLORIDE 14 SX @ 58.20 814.80
 ASC @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 HANDLING 473 Total SX @ _____
473 Total SX @ 2.25 1064.25
 MILEAGE 75 Ton Mile @ _____ 3903.75
 TOTAL 12397.55

REMARKS:

Ran 2 BIT'S OF New 2 3/4" 8 5/8 DSG.
Get @ 1189. Reviewed CIRCULATION
Cement w/ 4500# SX Comm. 3% CC + 2% GEL
Release Solid Rubber Plug & Displace
73 3/4 BBL H₂O LAND Plug on BAFFLE
Plate @ 1100. # & Shut IN.
Cement Did CIRCULATE
TO SURFACE WANKIS

SERVICE

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____ 1925.00
 EXTRA FOOTAGE @ _____
 MILEAGE 14 MY MT 75 @ 7.00 525.00
 MANIFOLD @ _____
14 MY MT 75 @ 4.00 300.00
 @ _____
 @ _____

TOTAL 2750.00

PLUG & FLOAT EQUIPMENT

@ _____
 @ _____
 @ _____
 @ _____
 @ _____

TOTAL _____

SALES TAX (if Any) 531.15
 TOTAL CHARGES 16147.55
 DISCOUNT 20/50 4647.68 IF PAID IN 30 DAYS

CHARGE TO: John O. Farmer
 STREET _____
 CITY _____ STATE _____ ZIP _____

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.

PRINTED NAME CALEN GANSCHLER
 SIGNATURE Calen Ganschler

ALLIED CEMENTING CO., LLC. 034647

Federal Tax I.D.# 20-5975804

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>CANGHIN</u>		WELL # <u>1</u>	LOCATION <u>STOCKTON KS 1 1/2 E 1/2</u>		COUNTY <u>ROOKS</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			<u>CE - 2 1/2" INTO</u>				

CONTRACTOR <u>Discovery #3</u>	OWNER
TYPE OF JOB <u>PTA</u>	
HOLE SIZE <u>7 1/8</u>	T.D.
CASING SIZE <u>8 1/8</u>	DEPTH <u>1189'</u>
TUBING SIZE	DEPTH
DRILL PIPE <u>4 1/2</u>	DEPTH <u>1235'</u>
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>210 SK</u>	
PERFS.	
DISPLACEMENT	

EQUIPMENT	
PUMP TRUCK CEMENTER <u>BOB S.</u>	
# <u>409</u> HELPER <u>TONY</u>	
BULK TRUCK	
# <u>410</u> DRIVER <u>CHRIS</u>	
BULK TRUCK	
#	DRIVER

REMARKS:

<u>P1 - 1235' - 40 SK</u>
<u>P2 - 730' - 100 SK</u>
<u>P3 - 90' - 25 SK</u>
<u>RAV - 30 SK</u>
<u>mouse - 15 SK</u>

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.

PRINTED NAME GALEN GASCHLER
SIGNATURE [Signature]

CEMENT		
AMOUNT ORDERED	<u>210 SK @ 60</u>	<u>480 CS</u>
	<u>40</u>	<u>1/4 # PLO-SCAL</u>
COMMON	<u>126 @ 16.25</u>	<u>2047.5</u>
POZMIX	<u>84 @ 8.50</u>	<u>714.00</u>
GEL	<u>7 @ 21.25</u>	<u>148.75</u>
CHLORIDE	@	
ASC	@	
<u>FLO-SCAL</u>	<u>50* @ 2.70</u>	<u>135.00</u>
	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING	<u>219 @ 2.25</u>	<u>492.75</u>
MILEAGE	<u>75 X 219 X .11</u>	<u>1806.75</u>
TOTAL		<u>5339.75</u>
		<u>5344.75</u>

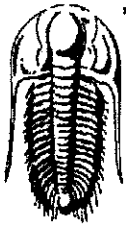
SERVICE

DEPTH OF JOB	
PUMP TRUCK CHARGE:	<u>1250.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>H</u>	<u>75 @ 7.00</u>
	<u>525.00</u>
MANIFOLD	@
<u>LdV M</u>	<u>75 @ 4.00</u>
	<u>300.00</u>
	@
TOTAL	<u>2075.00</u>

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		<u>0</u>

SALES TAX (If Any) 467.44
TOTAL CHARGES 7419.75
DISCOUNT 20/50 2873.47 IF PAID IN 30 DAYS



**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:

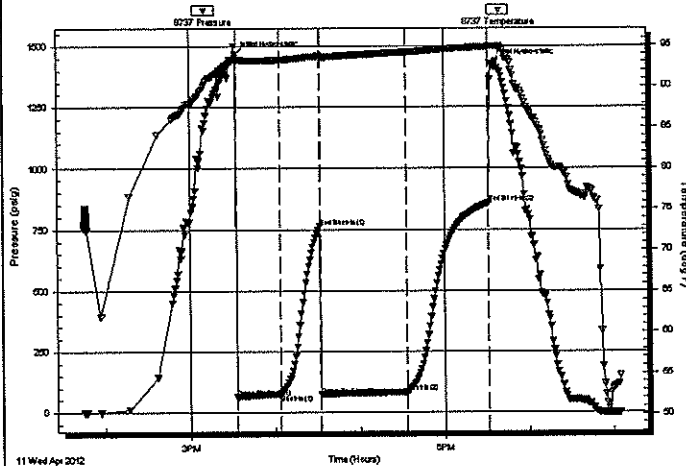
20:05:00

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 vs. Time



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

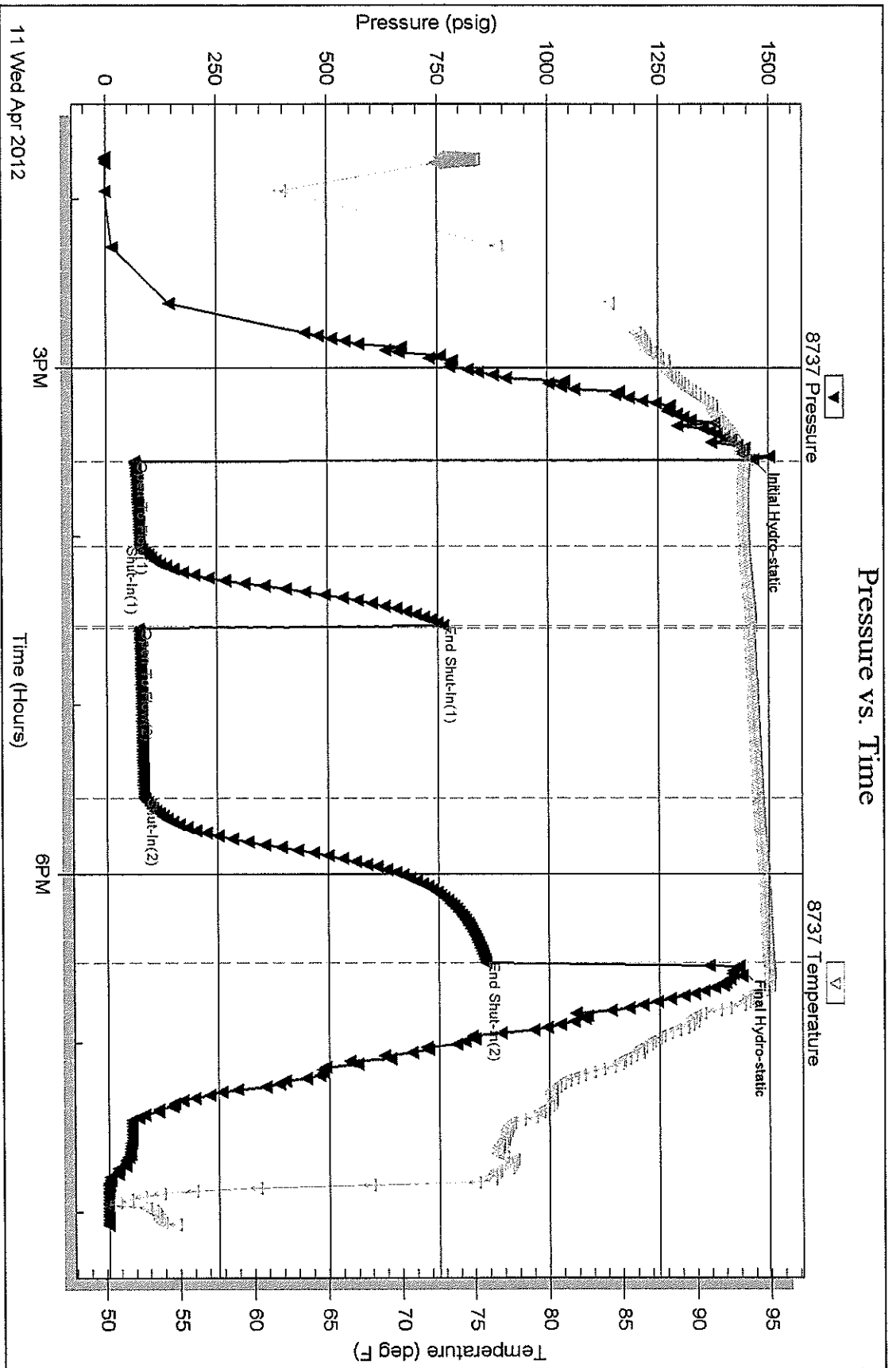
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Serial #: 8737

Outside John O. Farmer Inc

Caughtn #1

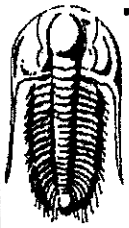
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 46308

Printed: 2012.04.11 @ 20:11:43



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

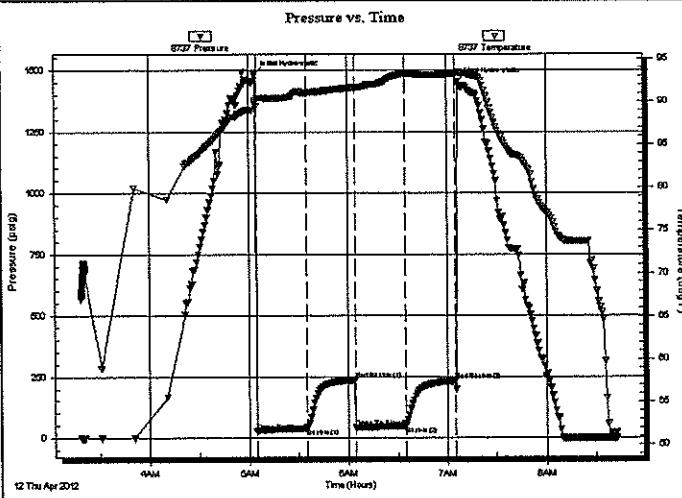
27-7s-17w Rooks, KS
Caughlin #1
 Job Ticket: 46309 DST#: 2
 Test Start: 2012.04.12 @ 03:19:00

GENERAL INFORMATION:

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

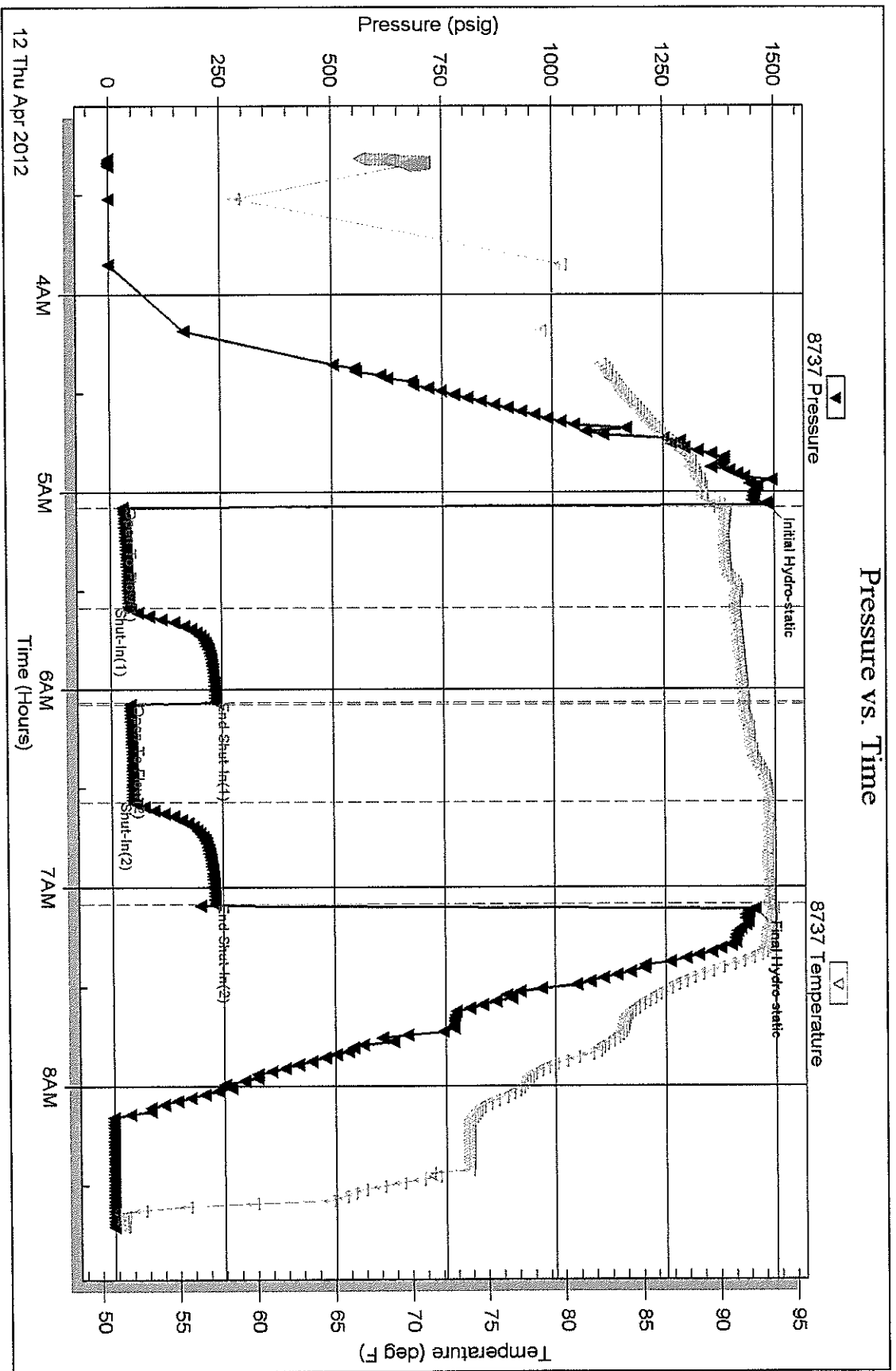
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

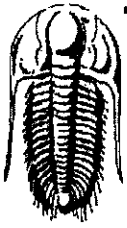
Serial #: 8737

Outside John O. Farmer Inc

Caughin #1

DST Test Number: 2





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

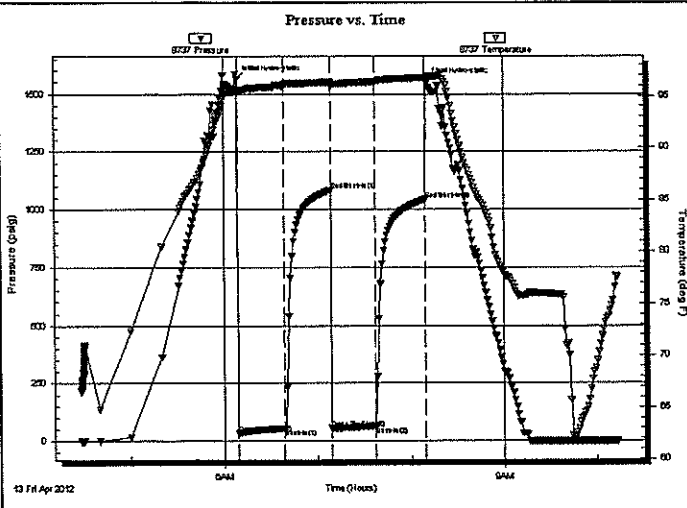
27-7s-17w Rooks, KS
Caughlin #1
 Job Ticket: 46310 **DST#: 3**
 Test Start: 2012.04.13 @ 04:28:00

GENERAL INFORMATION:

Formation: **KC "I,J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:09:00
 Time Test Ended: 10:13:30
 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
 Test Type: Conventional Straddle (Reset)
 Tester: Cody Bloedorn
 Unit No: 44
 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) Capacity: 8000.00 psig
 Start Date: 2012.04.13 End Date: 2012.04.13 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

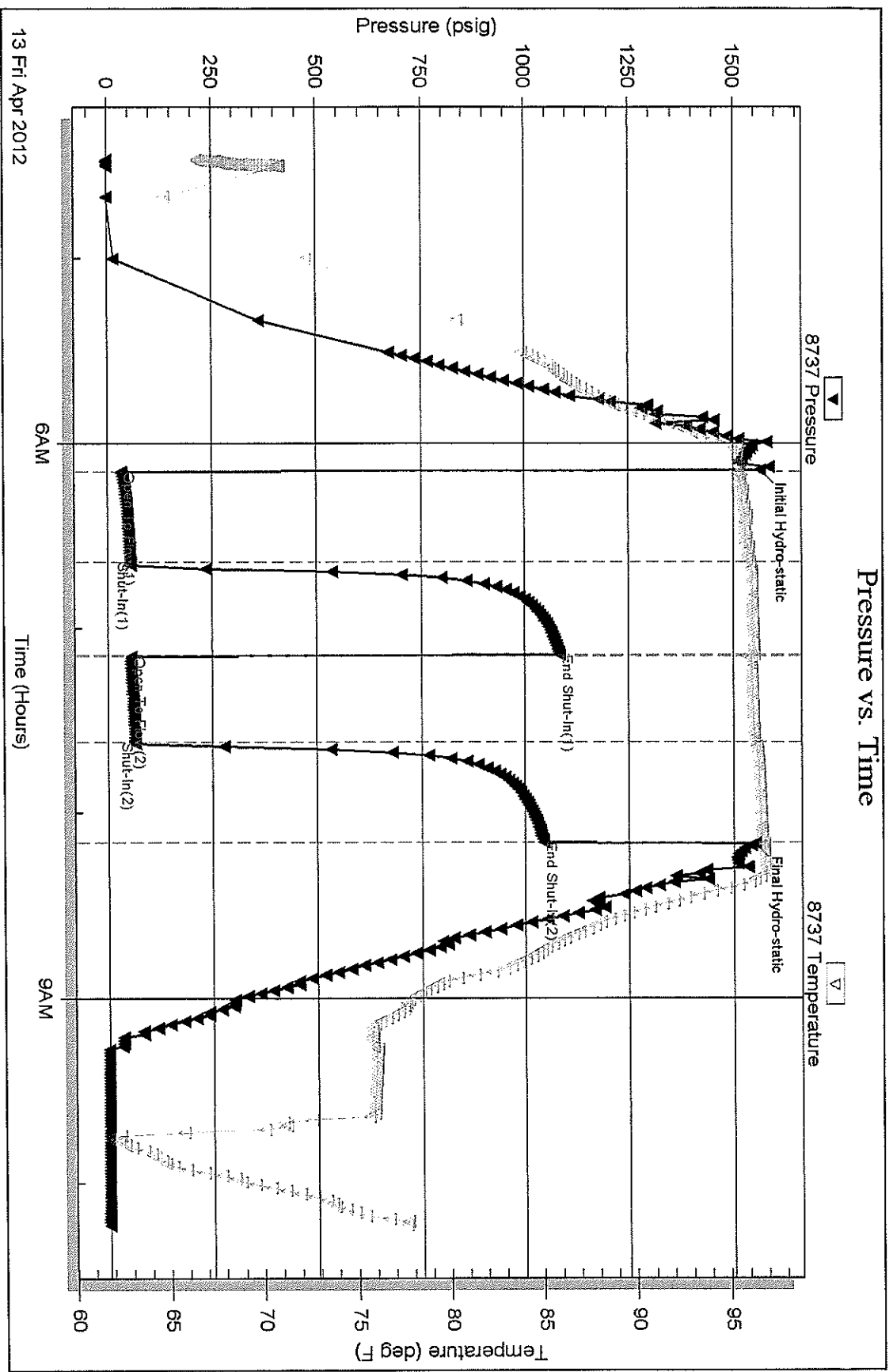
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Serial #: 8737

Outside John O. Farmer Inc

Caught #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 46310

Printed: 2012.04.13 @ 10:23:55

JOHN O. FARMER, INC.

P.O. BOX 352
RUSSELL, KANSAS 67665

785-483-3144

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG



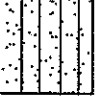


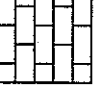
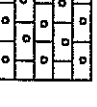
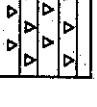

COMPANY <u>John O. Farmer Inc.</u> LEASE <u>Caughlin #1</u> FIELD <u>Wildcat</u> LOCATION <u>330' FSL 2000' FEL</u> SEC <u>27</u> TWSP <u>7S</u> RGE <u>17W</u> COUNTY <u>Rooks</u> STATE <u>Kansas</u>	ELEVATIONS KB <u>1865'</u> DF _____ GL <u>1857'</u> Measurements Are All From <u>Kelly Bushing</u>
CONTRACTOR <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>	CASING SURFACE <u>8 5/8" @ 1189'</u> PRODUCTION <u>none</u> ELECTRICAL SURVEYS CDL/CNL DIL MEL

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

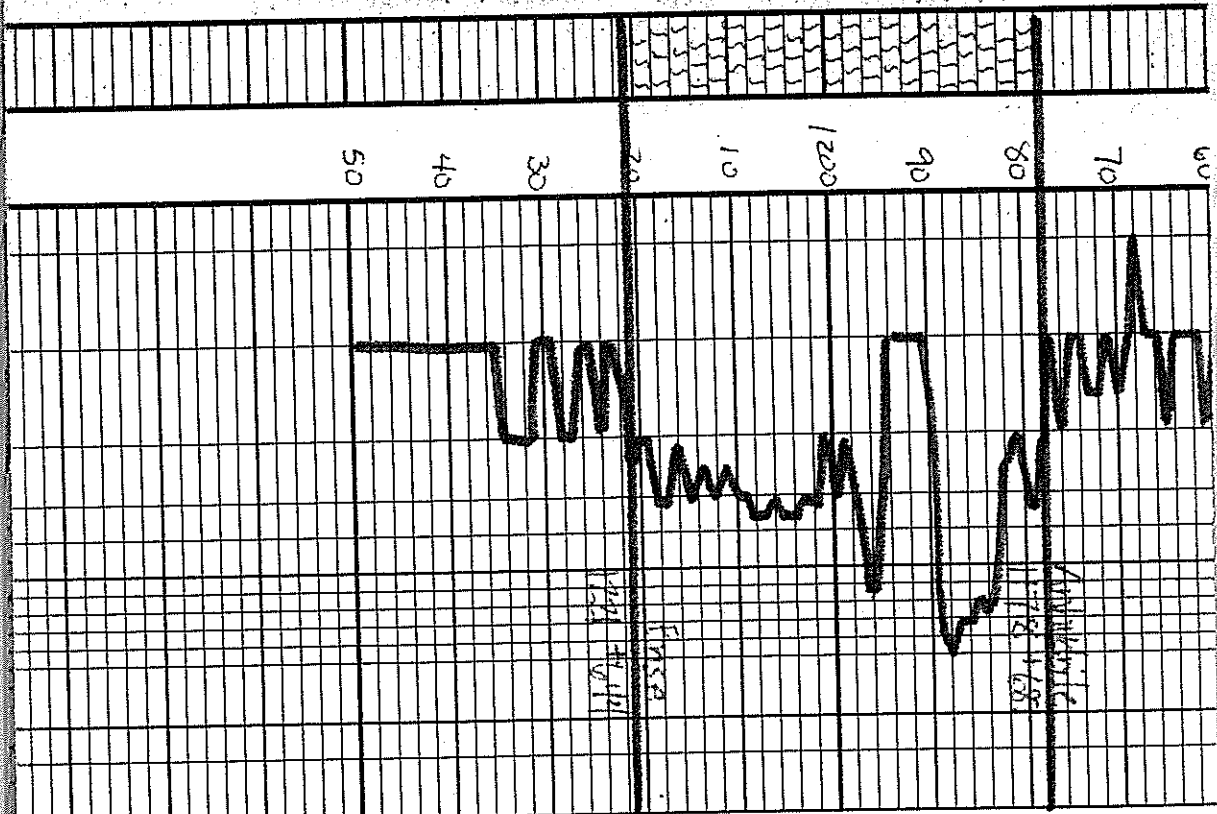
FORMATION TOPS	LOG	LOG	SAMPLES	SAMPLES	
Anhydrite	1187	+678	1178	+687	T7S
Base	1218	+647	1221	+644	RTW
Topeka	2728	-863	2728	-863	
Heebner	2940	-1075	2941	-1076	
Toronto	2962	-1097	2962	-1097	27
Lansing	2983	-1118	2984	-1119	
Rke	3224	-1359	3224	-1359	
Arbuckle					
RTD	3275	-1410	3275	-1410	←

DAILY PROGRESS	BIT RECORD	REMARKS
4/10/12 - Examined samples: 2685 - 2770	13 3/8" @ 98' 5 1/8" @ 1179'	
4/11/12 - Examined samples: 2770 - 3065		
Ordered test # 1 2930-3055 (TPMT - LKc D')		
Examined samples: 3055-3096		
4/12/12 - Ordered DST # 2 3052 - 3096 (LKc E-A')		
Examined samples: 3096 - 3275		
4/13/12 - Examined E-loops		

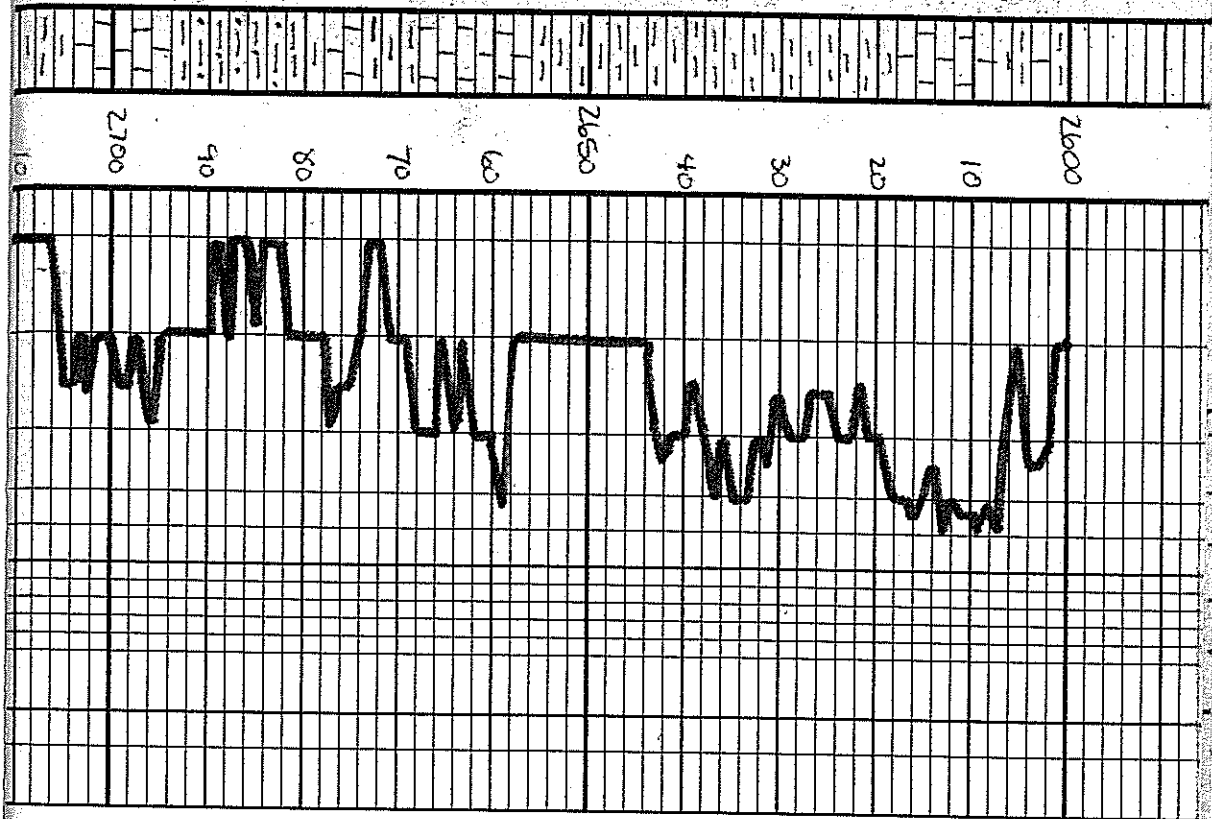
LEGEND

- Anhydrite 
- Salt 
- Sandstone 
- Shale 
- Carb sh 
- Limestone 
- Ool. Lime 
- Chert 
- Dolomite 

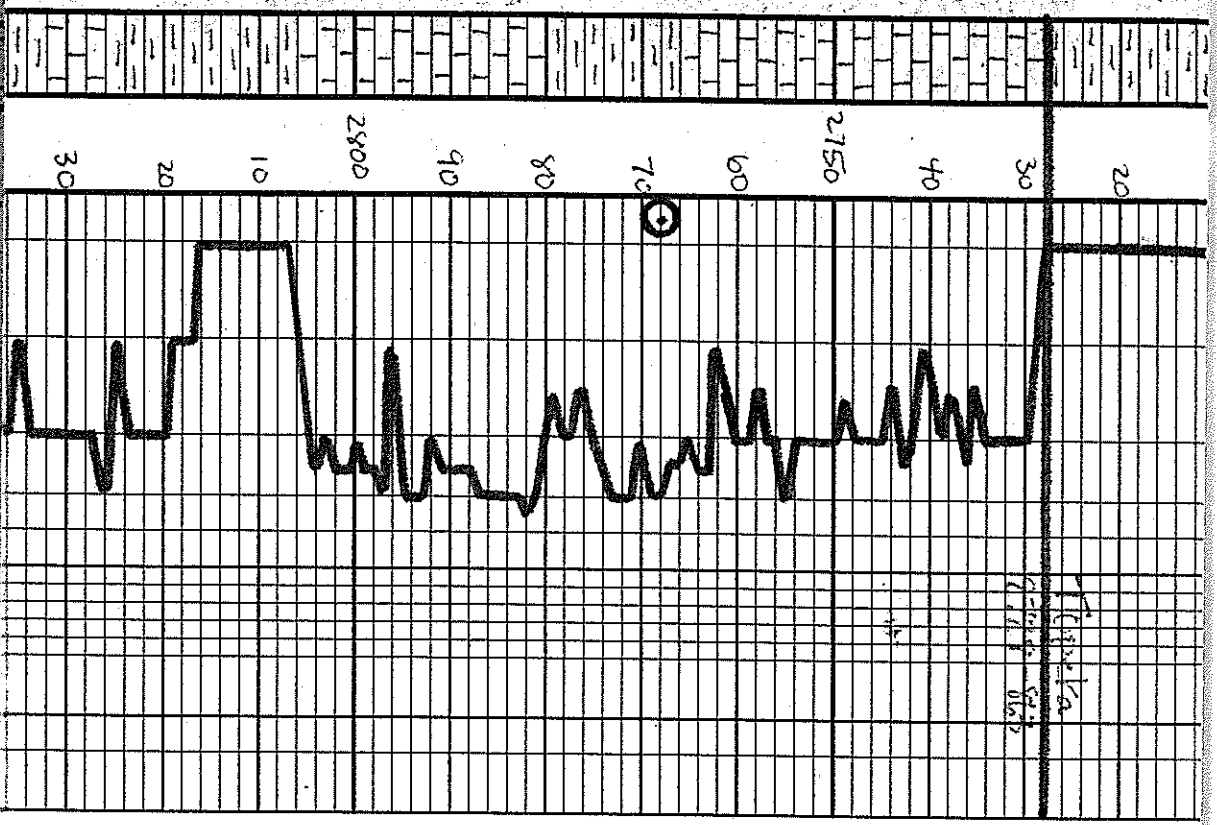
LITHOLOGY	DEPTH	DRILLING TIME Logarithmic Scale)	SAMPLE DESCRIPTIONS	REMARKS
	.5			Geo on location @ 3:30 pm. 4/10/12
	1			
	2			
	3			
	4			
	5			
	10			
	15			
	20			
	30			



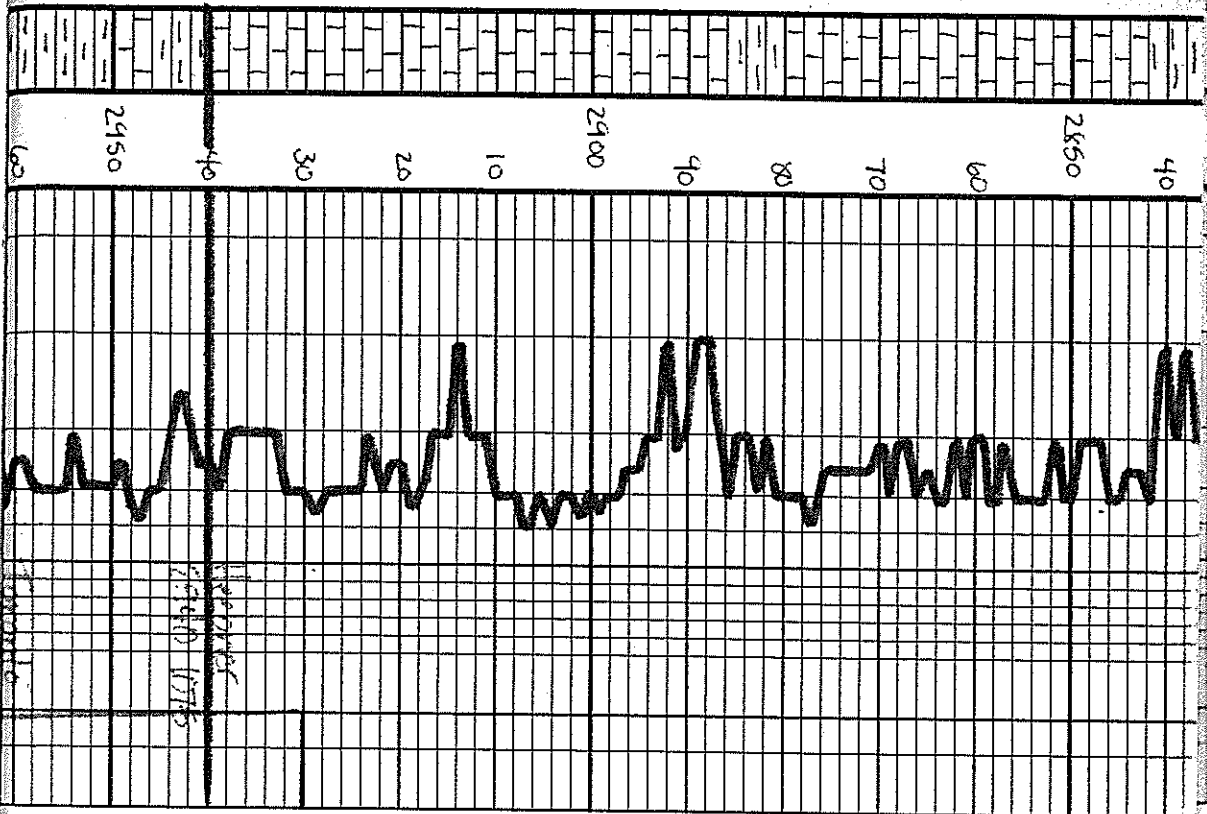
Oud Engineer:
 Ken Rupp
 Tester: Cody Elshuber



	WT: 8.6 Vis: 57
Sh - Dk grey - Rm very soft	
Sh - Dk grey soft	
Sh - Dk grey - Rm very soft	
LS - Tan - Grey Ea - sub via mostly dark	
Sh - light grey - Rm. soft	
LS - Tan - Grey Ea - sub via mostly dark	
Sh - Dk grey - Rm. very	WT: 8.7 Vis: 53



SH - a1a	
LS - 1000 - 1001 Fe - sub thin massive dark bl. fossil	
LS - a1a	
LS - 1000 - 1001 Gray Fe sh w/ steel pyrophyllite wavy of sil. sh. Al ₂ Si ₂ Fe ₂	
SH - Dark Gray very soft	WT: 8.7 Vis: 54
LS - 1000 - 1001 Gray Fe - sub thin Dark sh. fossil	
LS - a1a	
SH - silty - Dark Gray - R. ca. soft	
SH - a1a	
SH - R1E carb.	



21 STS
 2900
 2950

LS - ORK with - Jan
 Xln. 2900-2950

LS - aka

LS - E.P. with - Jan
 Xln. 2900-2950
 SL A

LS - aka

LS - E.P. with - Jan
 Sub. Xln. 2900-2950

LS - aka

LS - Jan - L.I. 2900
 Xln. 2900-2950

SN - BK. each

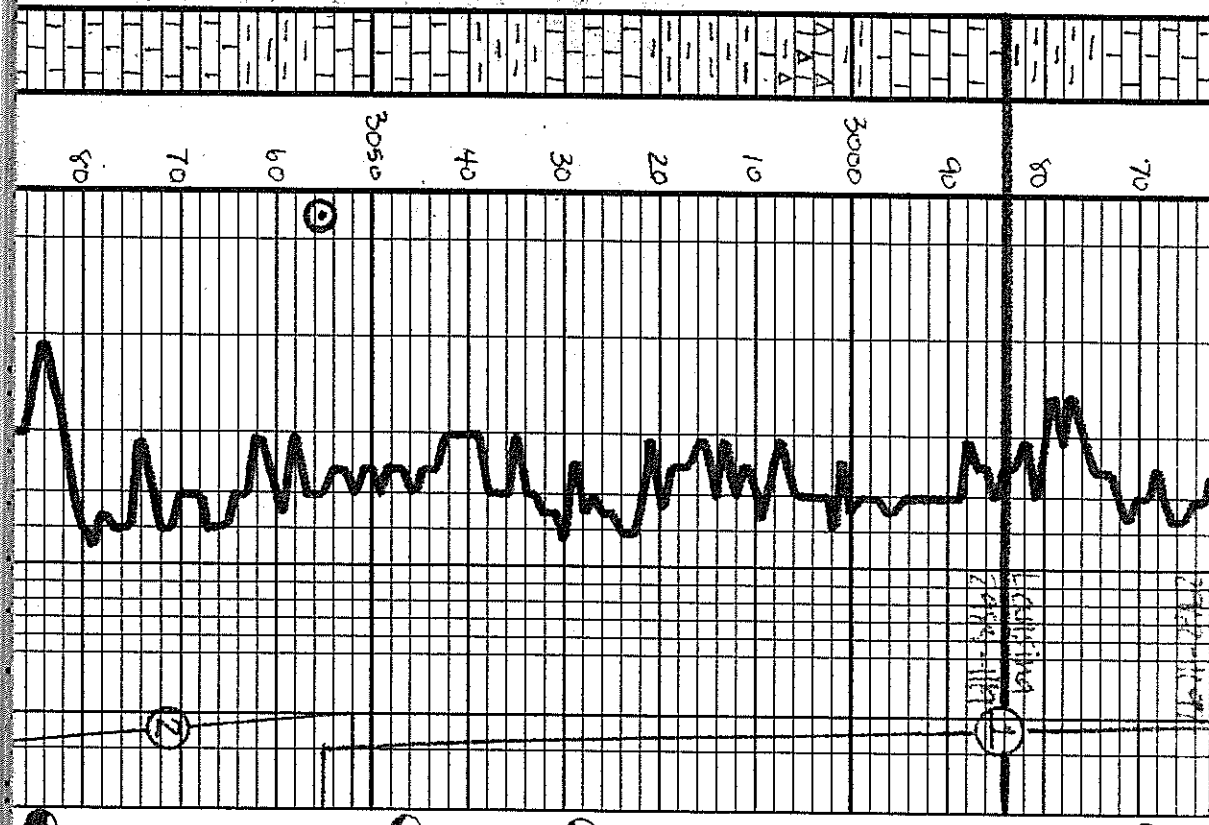
LS - Jan. ORK with - Jan
 Xln. 2900-2950

SN - BK. each

WT: 8.9
 VIS: 53

DST #1

TRNT - LK 'D'
 2930' - 3055'
 30' - 30' - 60' - 60'
 IH: 1465 #
 IF: 03-76 #
 Built to 2 1/2"



72-74-75
 71-72-73-74
 70
 80
 90
 3000
 10
 20
 30
 40
 3052
 60
 70
 80

LS - off wh. - tan for sub skin
 and w/ tan area of Var. color
 SE AVE - radial

SH - off wh. - tan for sub skin
 and w/ tan area of Var. color
 SE AVE - radial

SH - 17 Gray - Green - Bra
 soft

LS - off wh. - tan for sub skin
 and w/ tan area of Var. color
 SE AVE - radial

SH - Gray - Bra - Soft.

LS - off wh. - tan for sub skin
 and w/ tan area of Var. color
 SE AVE - radial

SH - Gray - Bra - Soft.

LS - off wh. - tan for sub skin
 and w/ tan area of Var. color
 SE AVE - radial

Rec: 55' GHTCM
 30% 0 60%

62' GIP

BHT: 94°

FH: 1430 #

FS1: 857 #
 No Blow Rod

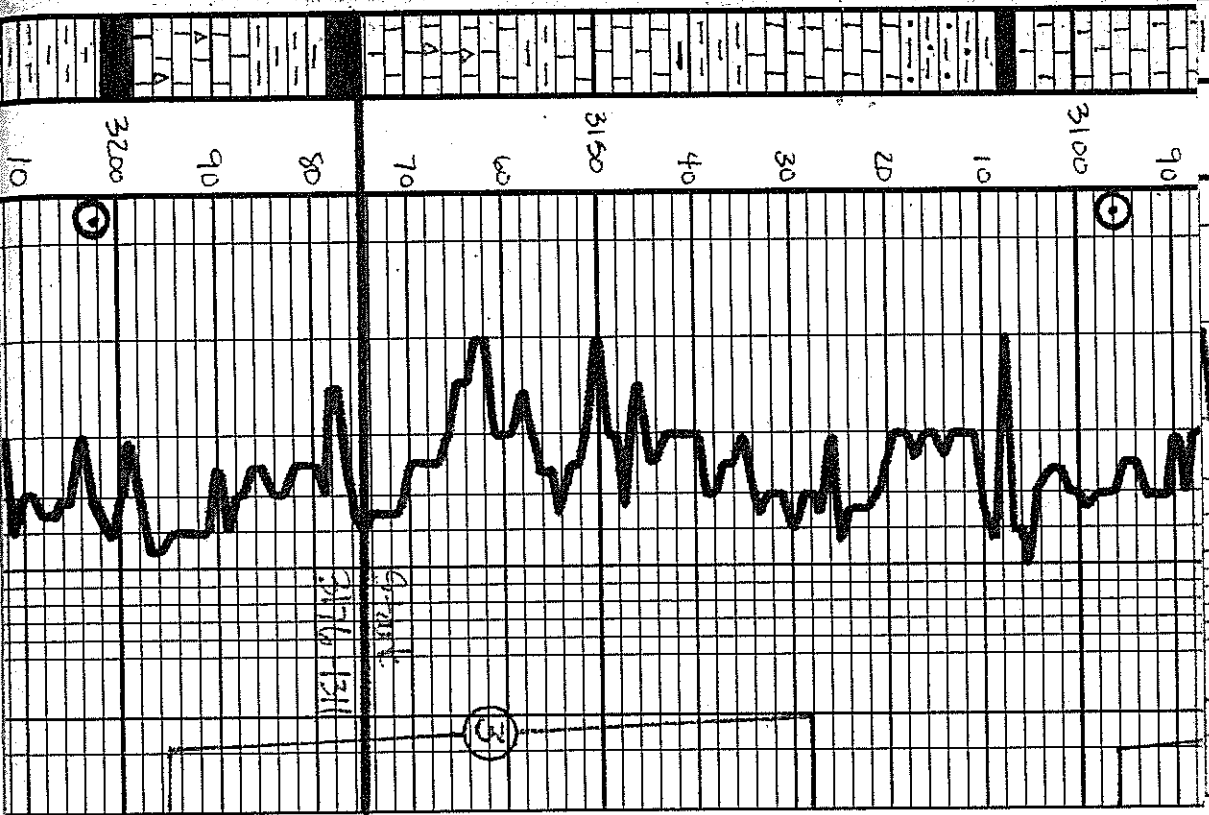
Built to 4'

10' Blow Rod

FF: 72-84 #

WT: 8.9
 Vis: 52

DST # 2
 L.A. # - 6
 3052 - 3096
 20 - 30 # 30 - 30
 20 - 30 # 30 - 30
 20 - 30 # 30 - 30
 IF: 27-41 #
 Built to 144
 IS1: 236 #
 FF: 42-47 #
 Built to 144
 FS1: 232 #
 Built to 144



LS - off wh - 1000' - 1200' - sub sh
 mostly soft sh. Fract. sl. Δ. 2227

Sh - KILC. Carb.

Sh - silst. - gray. sand. clay.

LS - off wh - 1000' - 1200' - 1400' - 1600' - 1800' - 2000' - 2200' - 2400' - 2600' - 2800' - 3000' - 3200' - 3400' - 3600' - 3800' - 4000' - 4200' - 4400' - 4600' - 4800' - 5000' - 5200' - 5400' - 5600' - 5800' - 6000' - 6200' - 6400' - 6600' - 6800' - 7000' - 7200' - 7400' - 7600' - 7800' - 8000' - 8200' - 8400' - 8600' - 8800' - 9000' - 9200' - 9400' - 9600' - 9800' - 10000'

Sh - Dark gray - 1800' - 2000' - 2200' - 2400' - 2600' - 2800' - 3000' - 3200' - 3400' - 3600' - 3800' - 4000' - 4200' - 4400' - 4600' - 4800' - 5000' - 5200' - 5400' - 5600' - 5800' - 6000' - 6200' - 6400' - 6600' - 6800' - 7000' - 7200' - 7400' - 7600' - 7800' - 8000' - 8200' - 8400' - 8600' - 8800' - 9000' - 9200' - 9400' - 9600' - 9800' - 10000'

LS - off wh - 1000' - 1200' - 1400' - 1600' - 1800' - 2000' - 2200' - 2400' - 2600' - 2800' - 3000' - 3200' - 3400' - 3600' - 3800' - 4000' - 4200' - 4400' - 4600' - 4800' - 5000' - 5200' - 5400' - 5600' - 5800' - 6000' - 6200' - 6400' - 6600' - 6800' - 7000' - 7200' - 7400' - 7600' - 7800' - 8000' - 8200' - 8400' - 8600' - 8800' - 9000' - 9200' - 9400' - 9600' - 9800' - 10000'

Sh - Dark gray. very soft

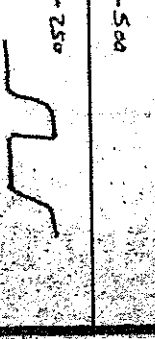
LS - off wh. Fract. sh. mostly soft sh. Fract. sl. Δ. 2227

Sh - BK. Carb.

LS - off wh. - 1000' - 1200' - 1400' - 1600' - 1800' - 2000' - 2200' - 2400' - 2600' - 2800' - 3000' - 3200' - 3400' - 3600' - 3800' - 4000' - 4200' - 4400' - 4600' - 4800' - 5000' - 5200' - 5400' - 5600' - 5800' - 6000' - 6200' - 6400' - 6600' - 6800' - 7000' - 7200' - 7400' - 7600' - 7800' - 8000' - 8200' - 8400' - 8600' - 8800' - 9000' - 9200' - 9400' - 9600' - 9800' - 10000'

Sh - 1200' gray - BK

BHT: 95°
 Rec: 35' GPM - oil
 5% Gr 95% W



Wt: 8 g
 Vis: 4.8

DST # 3
 LK: 1 - J
 3128' - 3195'
 30' - 30' - 30' - 30'

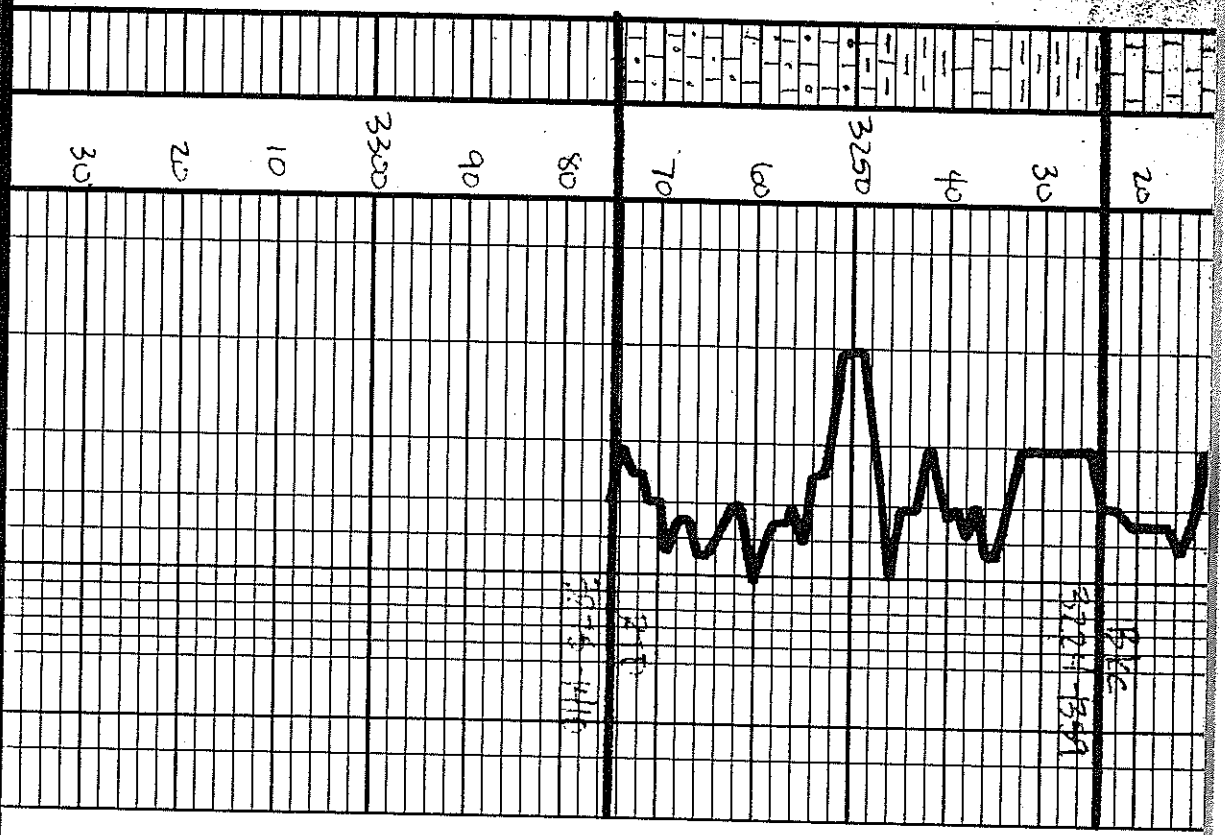
1/4: 1564#
 1/2: 35-55#

151: 1083# No flow

FF: 56-64#
 BS: 1044#
 FH: 1551#

BHT: 96°
 Rec: 75' Madrol/s





1st shift - 6am - 12pm
 2nd shift - 12pm - 6pm
 3rd shift - 6pm - 12am
 4th shift - 12am - 6am
 5th shift - 6am - 12pm
 6th shift - 12pm - 6pm
 7th shift - 6pm - 12am
 8th shift - 12am - 6am
 9th shift - 6am - 12pm
 10th shift - 12pm - 6pm
 11th shift - 6pm - 12am
 12th shift - 12am - 6am

250
 4/13/12 @ 9:00a
 Justice B. Howard