



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

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: _____



1133262

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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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	Staab Oil Co., a General Partnership
Well Name	Mary-Ann 1
Doc ID	1133262

All Electric Logs Run

Dual Induction
Complete Neutron Density
Microsensitivity
Sonic

Form	ACO1 - Well Completion
Operator	Staab Oil Co., a General Partnership
Well Name	Mary-Ann 1
Doc ID	1133262

Tops

Name	Top	Datum
Anhydrite	1492	+637
Base	1530	+599
Topeka	3183	-1054
Heebner	3419	-1290
Toronto	3437	-1308
Lansing	3460	-1331
BKC	3698	-1569
Cong Sand	3771	-1642
Cong Chert	3810	-1681
Arbuckle	3903	-1774
T.D.	3916	-1787

ALLIED OIL & GAS SERVICES, LLC 056859

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Russell KS

DATE <u>1-29-13</u>	SEC. <u>33</u>	TWP. <u>12</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00 AM</u>	JOB FINISH <u>6:30 AM</u>
LEASE <u>Mary Ann</u>		WELL# <u>1</u>		LOCATION <u>Yocemento 34 Winto</u>		COUNTY <u>Ellis</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Shields
 TYPE OF JOB surface
 HOLE SIZE 12 1/4 T.D. 232
 CASING SIZE 8 5/8 20" DEPTH 232.3
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 15
 CEMENT LEFT IN CSG. 15
 PERES
 DISPLACEMENT 13 3/4 bbl

OWNER
 CEMENT
 AMOUNT ORDERED 170 com 3%acc 2%gel

COMMON <u>170</u>	@ <u>17.90</u>	<u>3043.00</u>
POZMIX	@	
GEL <u>3</u>	@ <u>23.40</u>	<u>70.20</u>
CHLORIDE <u>6</u>	@ <u>64.00</u>	<u>384.00</u>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <u>183.51 ft³</u>	@ <u>2.48</u>	<u>455.11</u>
MILBAGE <u>83.80 t/m</u>	<u>2.60</u>	<u>217.88</u>
TOTAL		<u>4170.19</u>

EQUIPMENT
 PUMP TRUCK CEMENTER Robert V 1
 # 417 HELPER Woody O 2
 BULK TRUCK
 # 410 DRIVER Kiko S
 BULK TRUCK
 # DRIVER

REMARKS:

ran 5 jts of new 8 5/8 20" csg to 232.3 ft
receive circulation mix 170 com 3%acc
2%gel displace 13 3/4 bbl of fresh
water shot in

cement did circulate to surface

SERVICE

DEPTH OF JOB	<u>232</u>	
PUMP TRUCK CHARGE	<u>1512.25</u>	
EXTRA FOOTAGE	@	
MILEAGE <u>10 LVM I</u>	@ <u>7.70</u>	<u>77.00</u>
MANIFOLD	@	
<u>10 LVM I</u>	@ <u>4.40</u>	<u>44.00</u>
	@	
TOTAL		<u>1633.25</u>

CHARGE TO: Staab Oil
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

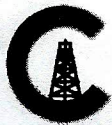
Wooden plug	@ <u>107.64</u>	<u>107.64</u>
	@	
	@	
	@	
	@	
TOTAL		<u>107.64</u>

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) 227.10
 TOTAL CHARGES 5911.08
 DISCOUNT 1655.10 IF PAID IN 30 DAYS
85-1-30

PRINTED NAME Thomas S Engel
 SIGNATURE Thomas S Engel

before tax
Good job
4255.97



CONSOLIDATED
Oil Well Services, LLC

256623

TICKET NUMBER 39316
LOCATION Oakley, KS
FOREMAN Kelly Gabel
Walt Dinkel

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

CEMENT

DATE <u>2-9-13</u>	CUSTOMER # <u>7732</u>	WELL NAME & NUMBER <u>Mary Ann #1</u>	SECTION <u>33</u>	TOWNSHIP <u>125</u>	RANGE <u>19W</u>	COUNTY <u>Ellis</u>
CUSTOMER <u>Staab Oil Co.</u>			CITY _____ STATE _____ ZIP CODE _____			
MAILING ADDRESS _____			CITY _____ STATE _____ ZIP CODE _____			
CITY _____ STATE _____ ZIP CODE _____			CITY _____ STATE _____ ZIP CODE _____			

JOB TYPE 2-stage HOLE SIZE 7 1/4 HOLE DEPTH 3912 CASING SIZE & WEIGHT 5 1/2 K/ft
 CASING DEPTH 3910 DRILL PIPE _____ TUBING DV Top #68 OTHER DV @ 1524'
 SLURRY WEIGHT 148-125 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING 33'
 DISPLACEMENT 94 1/2 DISPLACEMENT PSI _____ MIX PSI _____ RATE 6 bbl/min

REMARKS: safety meeting, rigged up on shields drilling, ran float equip on tr # cent. 1, 3, 5, 10, 12, 14, 16, 18, 20, 22, 67, 69 Basket #2, 68, DV tool top #68 ran pipe to bottom & circulated for 2 hrs, mixed 150 sks com 100 salt 20 gal pumped 5 bbl water, mud flush, 5 bbl water, released plug & displaced with 45 1/2 bbl water 45 1/2 bbl mud with a lift pressure of 700# plug landed @ 1500#, dropped DV Bomb opened tool & circulated for 2 hrs, mixed 30 sks R+ 20 sks MA, mixed 325 sks 60/40 P02 80 gal 1/4# Flo-seal, released plug & displaced with 38 1/2 bbl water, released pressure float held.

Thank You Walt, Kelly down

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54010	1	PUMP CHARGE	2700 ⁰⁰	2700 ⁰⁰
5406	40 mi	MILEAGE	5 ⁰⁰	200 ⁰⁰
11045	150 sks	Class A Cement	17 ⁶⁵	2647 ⁵⁰
1111	717 #	salt	4 ⁴⁵	3226 ⁵
1131	375 sks	60/40 P02	15 ¹⁰	5662 ⁵⁰
1118B	2862 #	Bentonite	25	715 ⁵⁰
1107	94 #	Flo-seal	2 ⁸³	265 ⁰⁸
5407A	23.17	Ton Mileage delivery	1 ⁶⁷	1548 ⁰⁰
1144G	500 gal	mud flush	1 ⁰⁰	500 ⁰⁰
41159	1	5 1/2 AFu float shoe (T)	413	413 ⁰⁰
41130	12	5 1/2 centralizer (T)	58 ⁰⁰	696 ⁰⁰
41104	2	5 1/2 basket	276 ⁰⁰	552 ⁰⁰
4283	1	DV Tool w/latchdown	385 ⁰⁰	385 ⁰⁰
1111	100 #	salt		NC
				20,072 ²³
				2007 ²²
				18,065 ⁰¹
			SALES TAX	885.911
			ESTIMATED TOTAL	18950.92

Completed

Ravin 3737

12:30 PM

AUTHORIZATION

Walt Dinkel

TITLE

partner

DATE

2-10-13

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

Randall Kilian Corporation

Geologist



**Certified Petroleum
Geologist #3351
License #224**

P.O. Box 26
Hays, Kansas 67601-0026
Phone: 785-628-6061
Cell: 785-635-1349

GEOLOGIST'S WELL REPORT

COMPANY STAAB OIL CO. (6037)

WELL Mary-Ann #1

FIELD Wildcat

LOCATION (legal) Ap. SE NE SW NE

(1960' FNL & 1585' FFL)

Section 33 TWP 12S RGE 19W

(Map) 3 mi N & 1/2 mi W of I-70
Yocemento Exit

COUNTY Ellis STATE Kansas

ELEVATION: 2129' K.B., 2124' G.L.

Depths measured from Kelly Bushing

A. P. I. NUMBER 15-051-26469

GEOLOGY BY Randall Kilian

PERTINENT WELL DATA

CONTRACTOR Shields Oil Producers

RIG #2 HYDRAULICS Beth 225 6x14x56
(Tom Engel TP)

DRILL PIPE 4 1/2" X-H COLLARS 6 1/2" (8) 233'

CASING: SURFACE 8 5/8" @ 229' w/ 170 sx Common

PRODUCTION 5 1/2" @ 3' off bottom w/ 150 sx Comm
DV in Anhy.

DRILLING FLUID: COMPANY Mud-Co/Service Mud, Inc.
(Gary Schmidtberger)

TYPE: Chemical

REMARKS: Full service Rig broke down so
high chlorides

DRILL STEM TESTS: COMPANY Trilobite Testing Inc.
(Kreutzer-Bloedorn)

NUMBER OF TESTS Three (3)

ELECTIC LOGS: COMPANY Pioneer Energy Services

DETAIL (5") 3100' - RTD

TYPE DI, Comp N-D, Micro, Sonic

DRILLING TIME FROM 3100' TO RTD

SAMPLE TIME FROM 3100' TO RTD

SUPERVISION FROM 3100' TO RTD

VERTICAL DEVIATION _____

PLUGGING REPORT 30 sx Rat, 15 sx Mouse

RESERVE PIT 800 bbls, Chl. 58,000

DRILL STEM TESTS

NO	INTERVAL	IFP/TIME	ISIP/TIME	FFP/TIME	FSIP/TIME	IHP/FHP	RECOVERY
1	TOP-D 3411- 3520'	20# 31# 5"	826# 60"	36# 90# 60"	808# 90"	1718# 1668#	252' O,C,Mud 31% Oil
2	LKc E-F 3520- 3550'	17# 22# 5"	957# 60"	24# 41# 30"	843# 30"	1777# 1720#	40' Mud
3	LKc H-L 3580- 3700'	81# 118# 5"	1345# 60"	132# 274# 60"	1147# 90"	1871# 1801#	124' GIP 558' G,Oil 31° 186' O,C,Mud 35% Oil
4							
5							
6							
7							
8							

Displaced
Broke down
LCM 2# \$5756

MUD RECORD

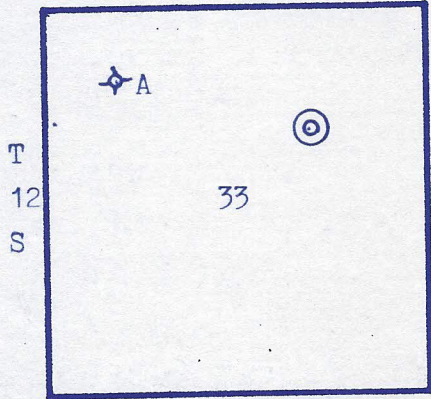
CHK	DEPTH	WT	VIS	FIL	CHL	YP
1	3000'					
2	3100'	8.6	60			
3	3205'	8.7	55			
4	3339'	8.8	54	7.4	2.6k	27
5	3425'	8.9	60	8.0	11.3	28
6	3560'	9.1	48			
7	3700'	9.5	51	10.4	11.7	23
8	3912'	9.0	46	12.0	10.0	17
9						
10						
11						

BIT RECORD

NO	SIZE	MAKE	TYPE	DEPTH-OUT	FEET	HOURS
1	12 1/4"	Reed	RR	232'	232'	7
2	7 7/8"	Reed	S-52	3912'	3680'	94 3/4
3						
4						
5						
6						
7						

FORMATION TOPS & STRUCTURAL GEOLOGY

R 19 W



REFERRED TO:

- A: CLA-MAR OIL CO.
Maier #1 SE NW NW 33
- B: _____
- C: _____
- D: _____
- E: _____

STRATIGRAPHIC MARKERS	SUBJECT WELL			STRUCTURAL POSITION				
	SAMPLE	E. LOG	DATUM	A	B	C	D	E
Anhydrite	1488'	1492'	+ 637	+ 651				
Base	1530'	1530'	+ 599	+ 608				
Topeka	3182'	3183'	-1054	-1060				
Heeb. Sh.	3417'	3419'	-1290	-1297				
Toronto	3440'	3437'	-1308	-1318				
Lansing	3460'	3460'	-1331	-1339				
BKc.	3702'	3698'	-1569	-1577				
Cong Sd.	3772'	3771'	-1642	-1624				
Cong Chert	3810'	3810'	-1681	-1663				
Arbuckle	3903'	-	-1774	-1705				
TD	3912'	3916'	-1787	-1727				

Pipe strap 1.52' short.

*Structural position of subject well as compared to referred well.

SUMMARY

The Mary-Ann #1 well was drilled with Shields Oil Producers tools rig #2 beginning 1-28-13 and drilling was completed 2-10-13.

The drill site was located via a 3-D seismic survey.

The well ran ap. 8' high structurally to the nearby dry hole. Three (3) DST's were run, 2 with positive results.

Based upon all data, 5½" casing was set and cemented to further test and produce the well.

Recommended perfs: LKc J 3633', I 3616-19', C 3494-99'.

Respectfully,

Randy

Randall Kilian

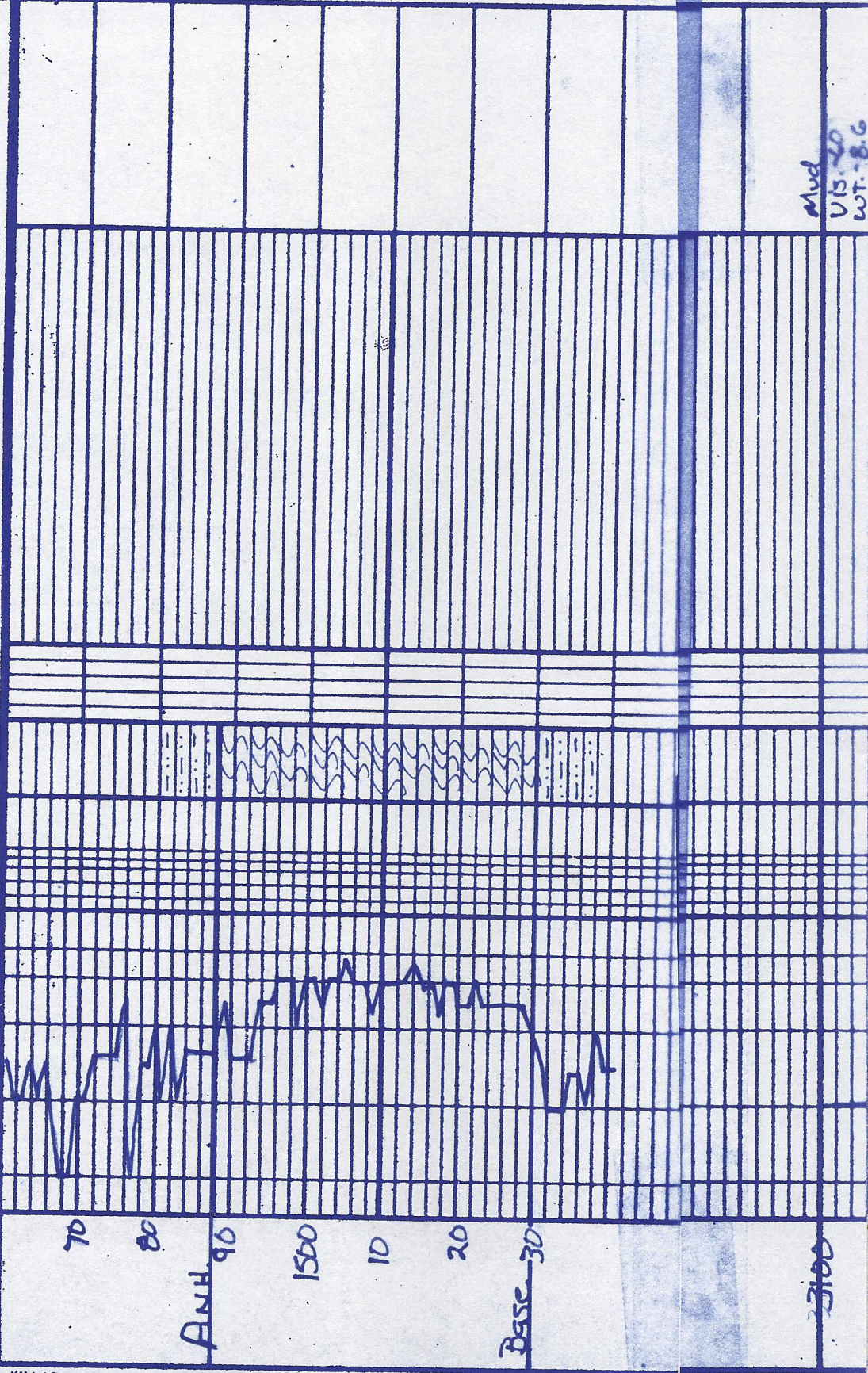
DRILLING TIME (min/ft)

1/2 1 2 3 4 5 6 7 8 9 10

POOR
FAIR
GOOD
DST

LITHOLOGY (LAGGED)

REMARKS



Mud
V15.20
WT. 8.6

6

9:50 am location
5:00 PM 2-1-13

Mud
U.S. 55
wt. 8.7

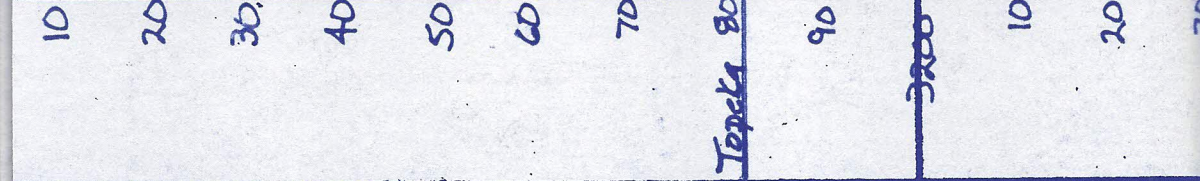
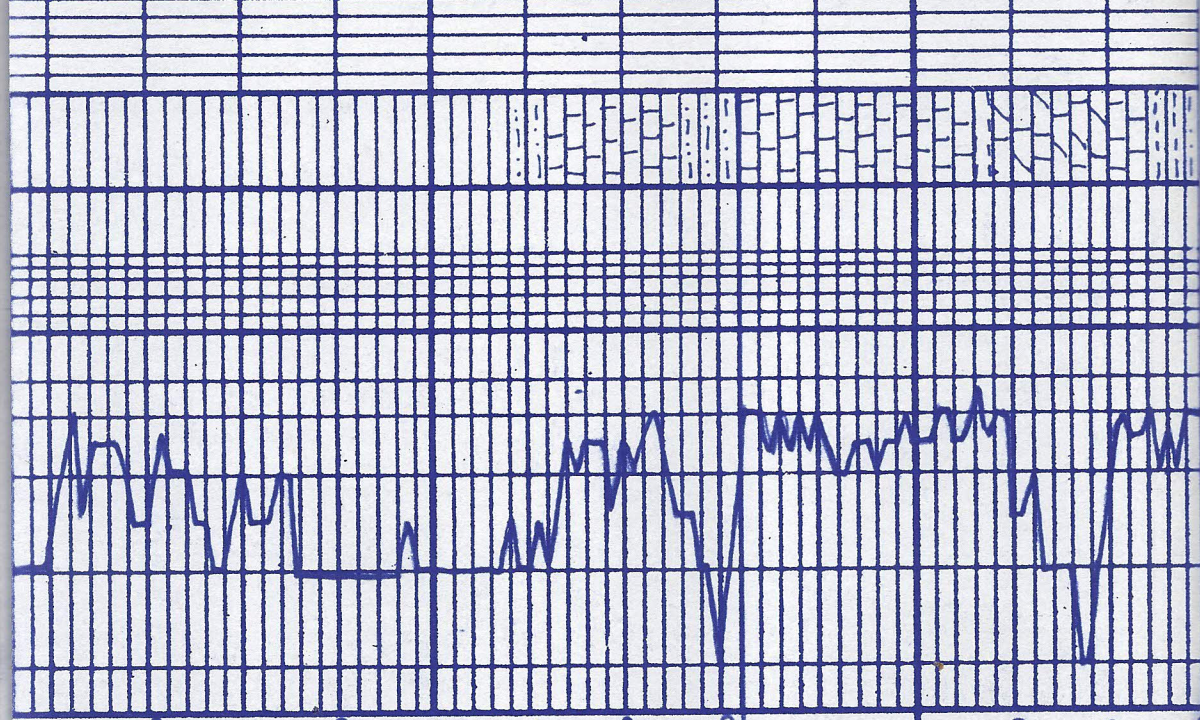
sh-gray

ls-tan-brn-gray-fn. sh.
massif

sh-gray

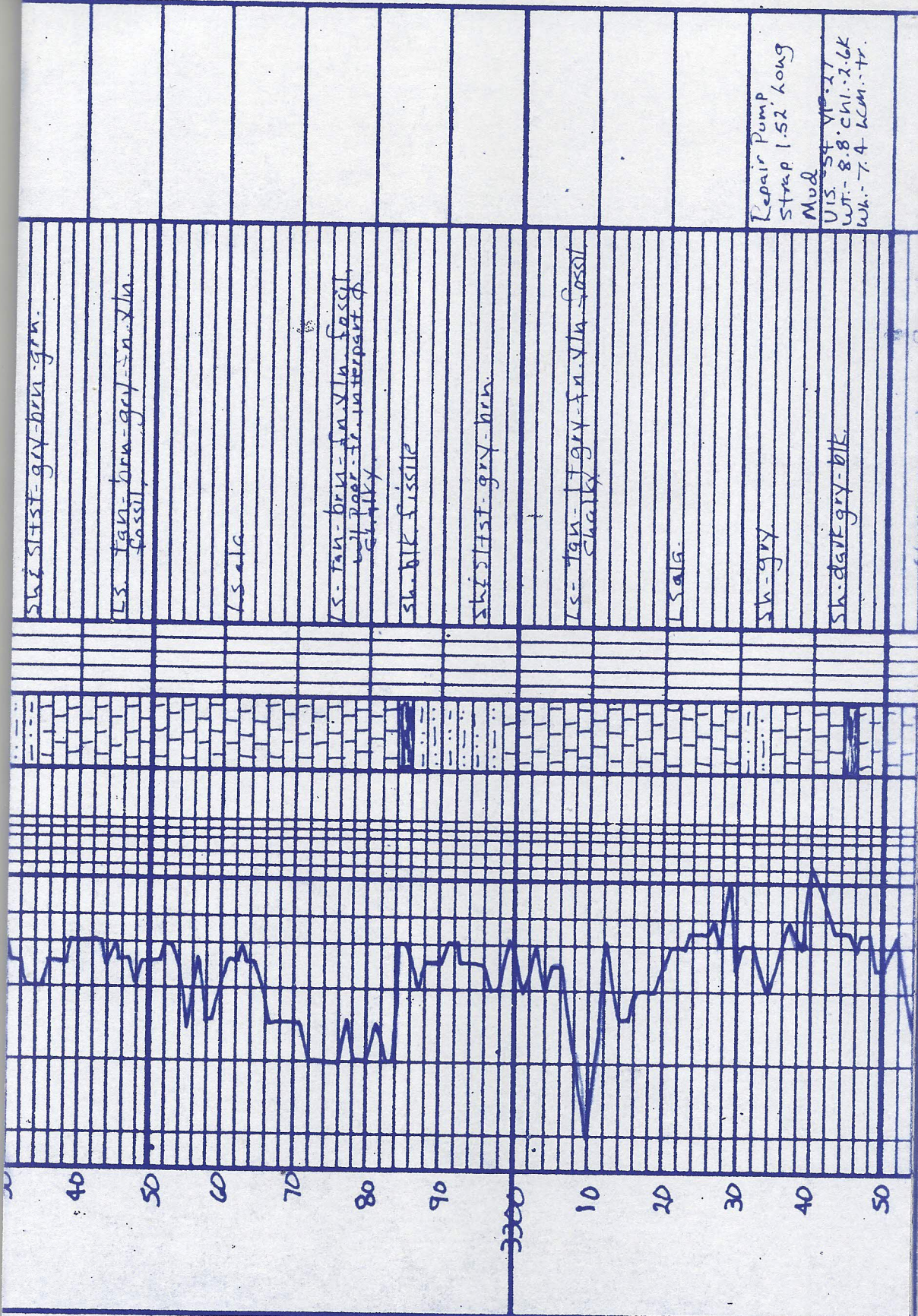
ls-dark-tan-fn. sh. w/ poor
inter. sh. of barren sh. highly

sh-dark gray



Temp 80

Depth 10 20 30



sh. sst - gry - brn - grn.

ls. tan - brn - gry - s.s. xln. fossil.

ls. calc.

ls. tan - brn - s.s. xln. fossil, well sorted - fr. in part. Chalky

sh. blk. fissile

sh. sst - gry - brn.

ls. tan - gry - s.s. xln. fossil. Chalky

ls. calc.

sh - gry

sh. dk. gry - blk.

Repair Pump
 strap 1.52' long
 Mud
 Vis. 54 VP. 27
 WT. 8.8 CHI. 2.6K
 Wk. 7.4 KCM. Tr.

15- off wh - tan - fm - xln
 fossil

15- tan - st - dol - fm - xln w/ w. inter xln. 5% cutting s/c chalk

15- off wh - tan - fm - xln fossil, s/c chalk

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15- 98

15- 99

15- 100

Mud
 U.S. - 60 Y.P. - 28
 Wt. - 8.9 Chl. - 11.3K
 Vol. - 8.0 Lem. - 1.1

DST # 1 Tor - D
 3411 - 3520
 5" - 60' - 60' - 90"
 25 x OTC Mud
 FP 20-31, 36-90"
 S.I.P. 826-808#

Mud
 U.S. 52

15- off wh - tan - fm - xln
 fossil

15- tan - st - dol - fm - xln w/ w. inter xln. 5% cutting s/c chalk

15- off wh - tan - fm - xln fossil, s/c chalk

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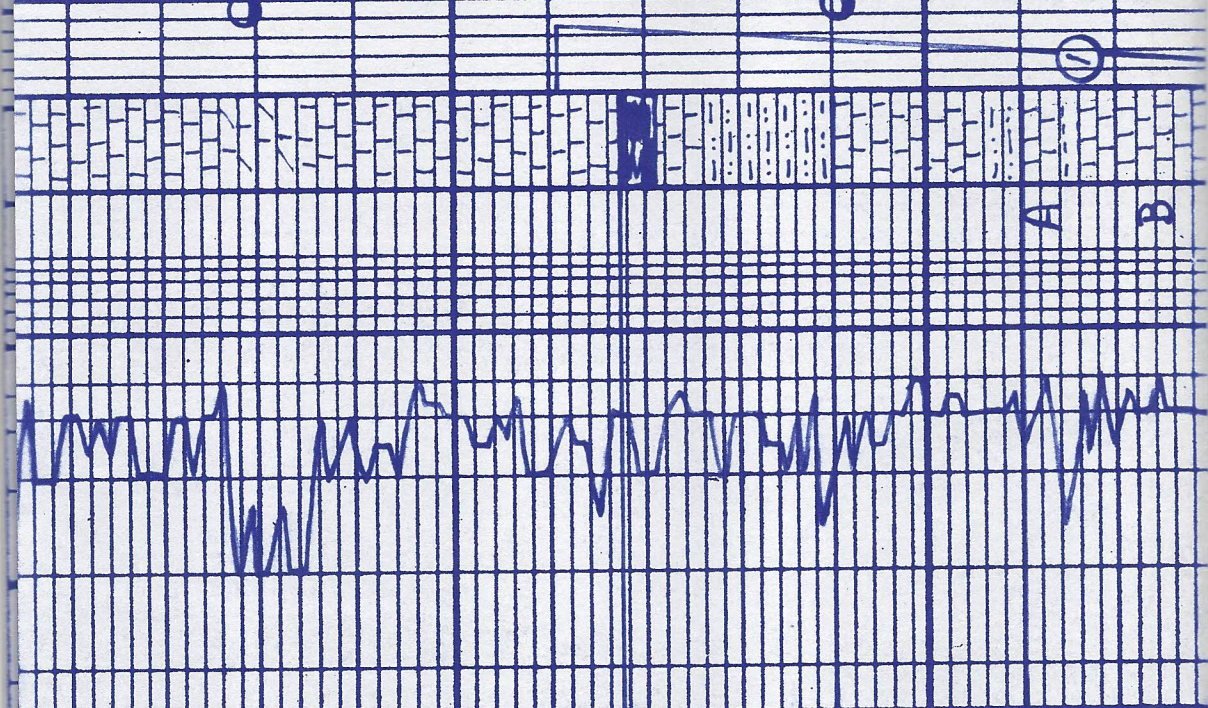
15- 97

15- 98

15- 99

15- 100

Mud
 U.S. 52



60
 70
 80
 90
 100

Hb. Sh.
 Tor.
 lans.

15- off wh - tan - fm - xln
 fossil

15- tan - st - dol - fm - xln w/ w. inter xln. 5% cutting s/c chalk

15- off wh - tan - fm - xln fossil, s/c chalk

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15- 88

15- 89

15- 90

15- 91

15- 92

15- 93

15- 94

15- 95

15- 96

15- 97

15- 98

15- 99

15- 100

Mud
 U.S. 52

WT. 9.1

sh-sst - grey-brn-gen

LS - 1/2 tan - 1/2 tan - fossiliferous - poor in part - of sst - sh - grey

sh-sst - grey-brn-gen

LS - tan - 1/2 grey - fm. thin fossiliferous - poor in part - of sst - sh - grey

sh-dark grey

sh-sst - grey-brn-gen - soft

LS - of tan - 1/2 grey - fm. thin fossiliferous - poor in part - of sst - sh - grey

LS - tan - brn - grey - fm. thin fossiliferous - poor in part - of sst - sh - grey

LS - of tan - 1/2 tan - fossiliferous

LS - tan

sh-dark grey

sh-sst - grey-brn-gen

sh-sst - grey-brn-gen - fossiliferous - poor in part - of sst - sh - grey

80

90

2000

10

20

30

40

50

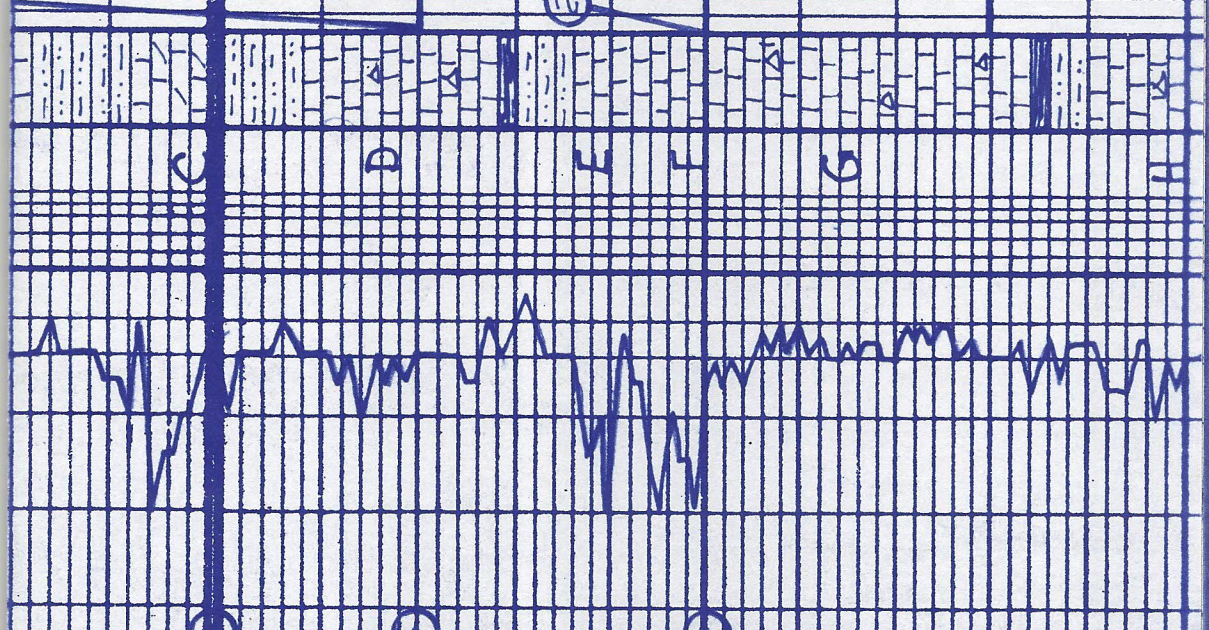
60

70

80

90

3600



C

D

E

F

G

H

DST #2 JKC EF

3520-50

5" 60" 130" 30"

40 Mud

F.P. 17-22 24-41#

S.P. 957-843#

Mud

Vis. 48

WT. 9.1

DST #3 JKC H-L

3580-3700

5" 60" 60" 90"

124 GIP

558' G.O.L

186' O.C. Mud

F.P. 811-10152-27#

S.P. 1345-1147H

C.O. H.W. 1345-1147H
sl. sh. st. in ph. sl. chalky
sl. sh.

sh. siltst. - gray-brn-grn.

ls. offwh. ool-fossil. fn. v. tan
poor interpart. of pic st. in ph
sl. odor. sl. chalky

sh. siltst. - gray-brn-grn.

ls. offwh. tan-gr. in. v. tan. fossil w/
poor interpart. of pic st. in ph
sl. chalky

sh. blk. fissile

sh. siltst. - gray-grn.

ls. - tan-gr. in. v. tan. sl. fossil
w/ poor interpart. of sl. calc
in ph sl. sh.

sh. blk. carb.

sh. siltst. - gray-brn.

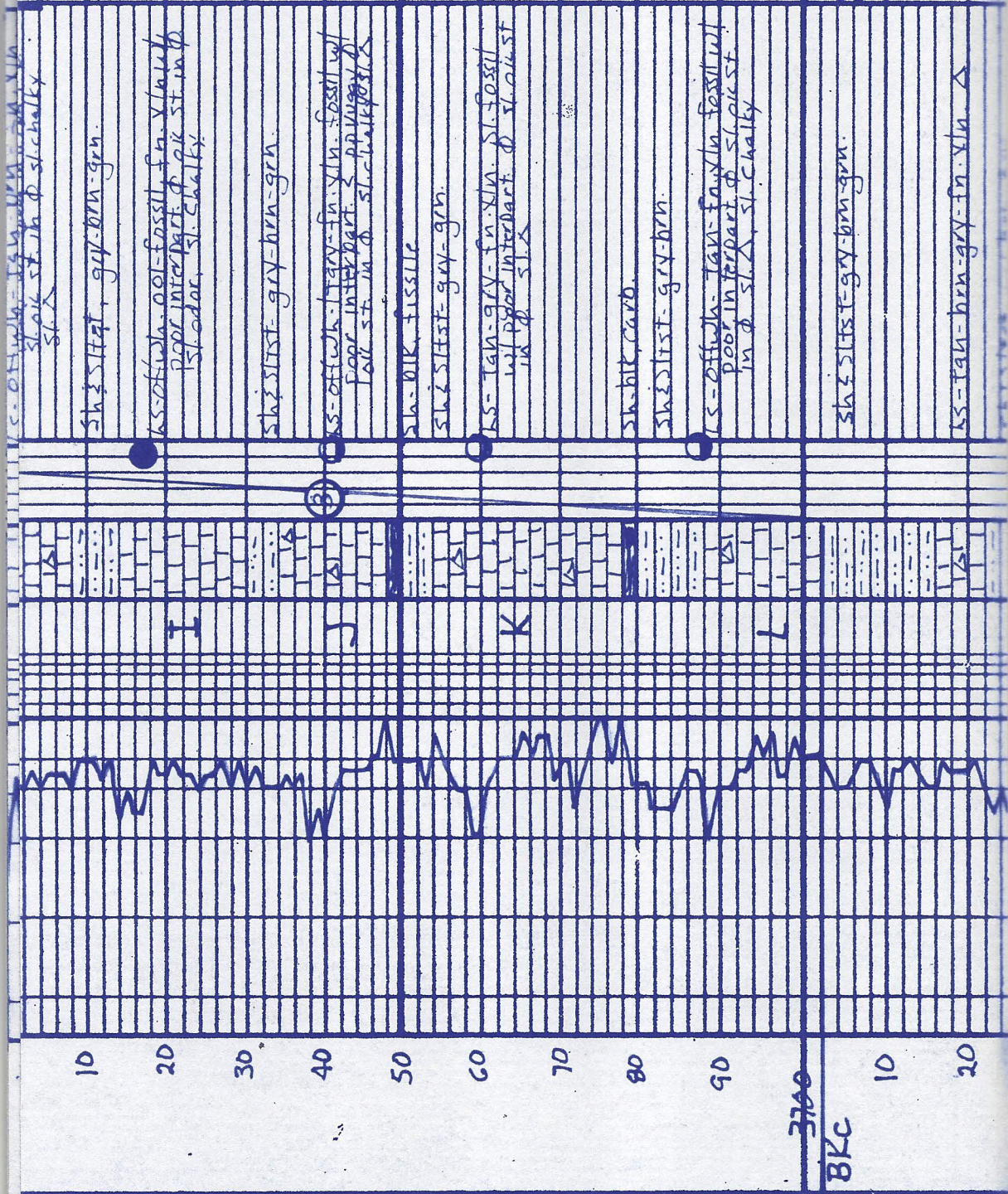
ls. - offwh. tan-foss. in. fossil w/
poor interpart. of sl. calc
in ph sl. sh. sl. chalky

sh. siltst. - gray-brn-grn.

ls. - tan-brn-gr. in. v. tan. Δ

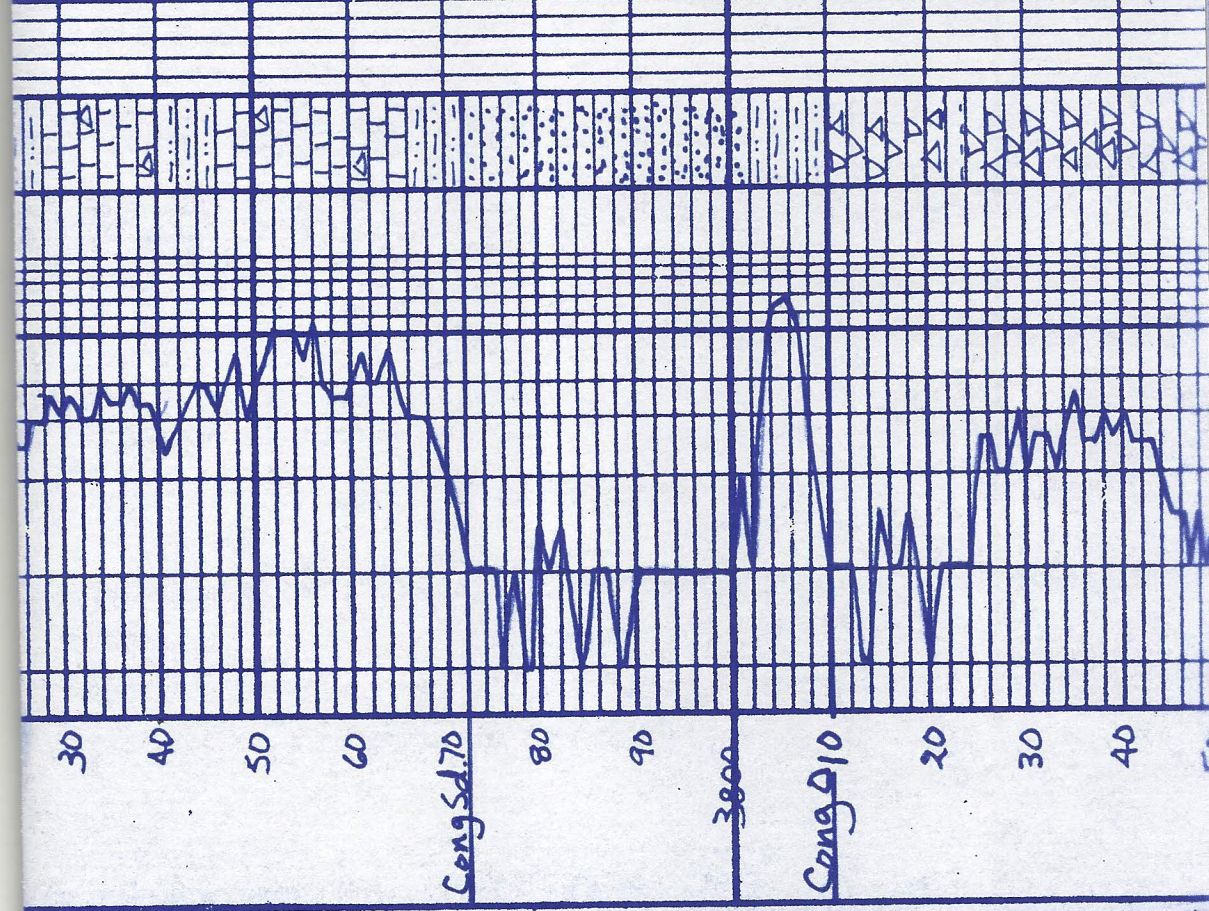
Mud
Vis. - 50
wt. - 9.2

Mud
Vis. - 51 Y.P. - 23
wt. - 9.5 Cal. - 11.7K
wt. - 10.4



3700
BKC

sh - tan-gry Vfn - fn. xlna sl fossilif sl	sh - tan-gry - brn - m. xlna fossilif, Δ	sh - gry	ss - qtz, wh - clear - fn. med gry, well-sorted, barren	ss - qtz	Mud U.S. - 51 wt. - 91
sh - gry - dark gry	V. Δ offwh - wh - pink barren	sh - gry - brn - red,	V. Δ, wh - tan - orange - pink barren		





V.S. data.

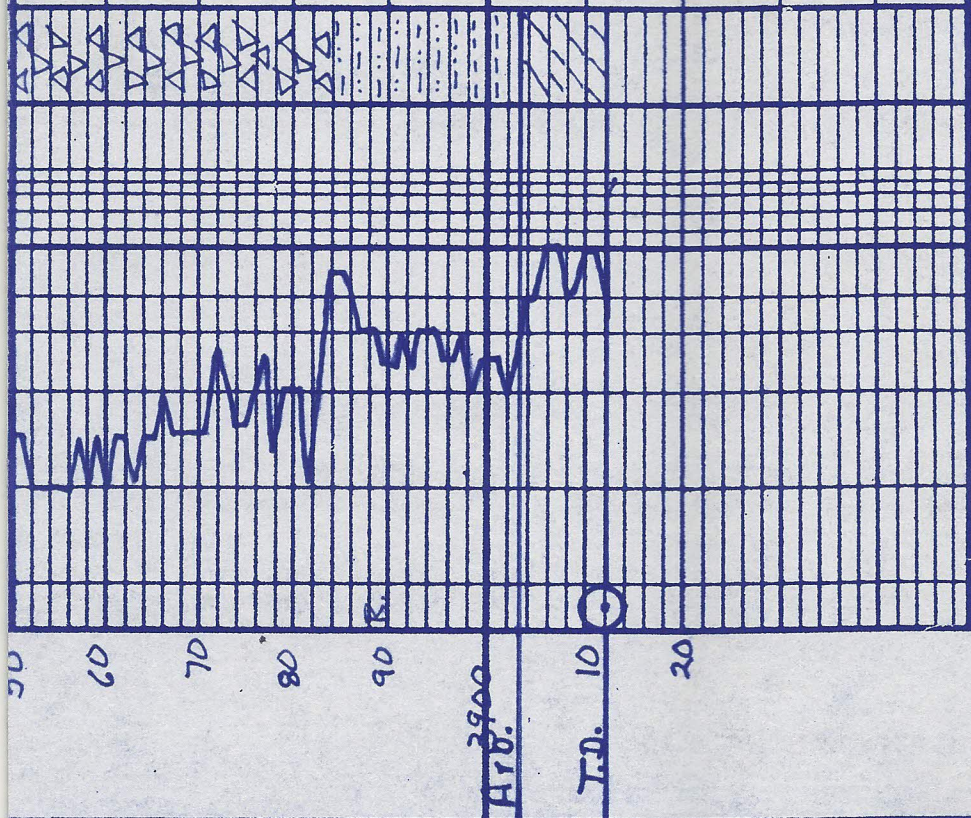
sh. s. HST, ben-red. gry

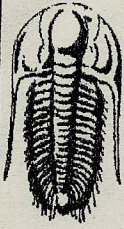
sh-grh. waxy

Dob. Tan-brn. fn. Fla. Fite

Mud

US-#6 Y.P.-11
WT-9.0 CWI-10K
WI-120 LHM-3#





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Stabb Oil Co.
1607 Hopewell Rd.
Hays Ks. 67601
ATTN: Randy K

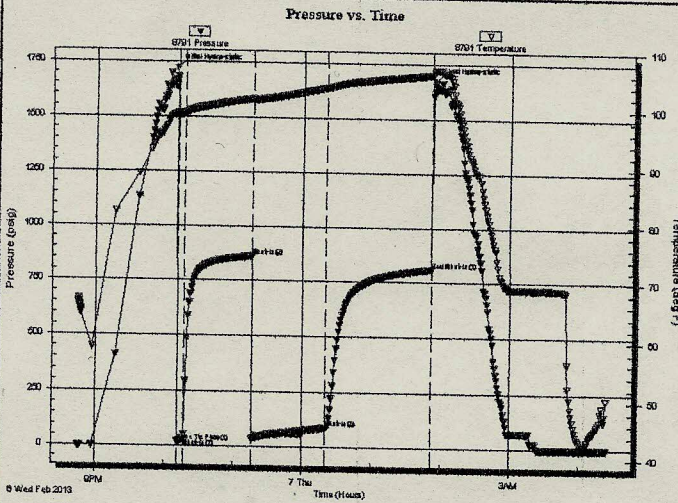
33 12s 19w
Mary-Ann #1
Job Ticket: 48041 DST#: 1
Test Start: 2013.02.06 @ 20:45:00

GENERAL INFORMATION:

Formation: **Tor.-LKC-D**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 22:11:30
Time Test Ended: 04:23:30
Interval: **3411.00 ft (KB) To 3520.00 ft (KB) (TVD)**
Total Depth: **3520.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Chuck Kreutzer Jr.**
Unit No: **61**
Reference Elevations: **2129.00 ft (KB)**
2124.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 8791 **Inside**
Press@RunDepth: **31.27 psig @ 3412.00 ft (KB)**
Start Date: **2013.02.06** End Date: **2013.02.07**
Start Time: **20:45:00** End Time: **04:23:30**
Capacity: **8000.00 psig**
Last Calib.: **2013.02.07**
Time On Btm: **2013.02.06 @ 22:10:00**
Time Off Btm: **2013.02.07 @ 01:54:00**

TEST COMMENT: IF: Weak blow, Blow started at 1/2in. and built to 1 in. over 5 mins.
IS: No blow back
FF: Weak blow, Built to B.O.B in 60 mins.
FI: No blow back over 90 mins.



PRESSURE SUMMARY

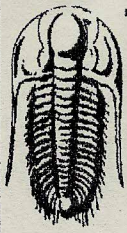
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1717.98	99.00	Initial Hydro-static
2	19.87	98.71	Open To Flow (1)
7	31.27	99.13	Shut-in(1)
66	862.31	101.69	Shut-in(2)
67	35.65	101.39	Open To Flow (2)
131	89.83	103.68	Shut-in(3)
222	807.94	106.01	End Shut-in(1)
224	1667.86	106.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	25% to 75%	0.32
189.00	35% to 65%	0.95

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Stabb Oil Co.
1607Hopewell Rd.
Hays Ks. 67601
ATTN: Randy K

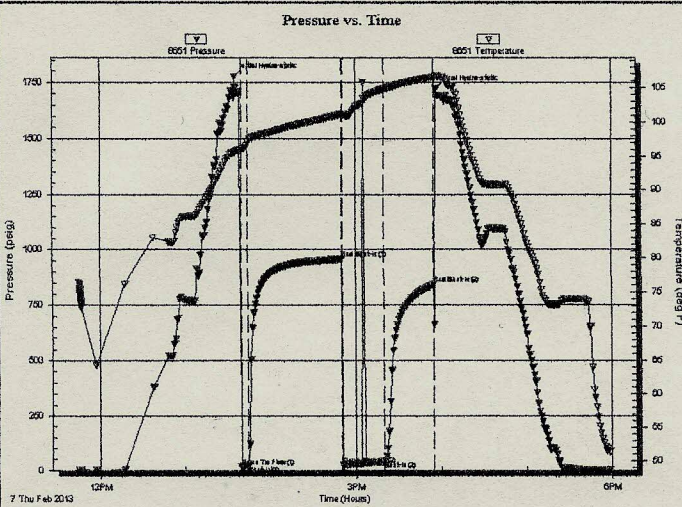
33 12s 19w
Mary-Ann #1
Job Ticket: 48042 **DST#: 2**
Test Start: 2013.02.07 @ 11:45:00

GENERAL INFORMATION:

Formation: **LKC-E-F**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 13:39:30
Time Test Ended: 17:58:30
Test Type: **Conventional Bottom Hole (Reset)**
Tester: **Chuck Kreutzer Jr.**
Unit No: **61**
Interval: **3520.00 ft (KB) To 3550.00 ft (KB) (TVD)**
Total Depth: **3550.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Reference Elevations: **2129.00 ft (KB)**
2124.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 8651 **Outside**
Press@RunDepth: **41.13 psig @ 3521.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2013.02.07** End Date: **2013.02.07** Last Calib.: **2013.02.07**
Start Time: **11:45:00** End Time: **17:58:30** Time On Btm: **2013.02.07 @ 13:35:00**
Time Off Btm: **2013.02.07 @ 15:56:30**

TEST COMMENT: IF: Weak blow, 1/4 in. died back to surface.
IS: No blow back
FF: No blow, flushed tool 10 mins. in to flow. Weak blow died
FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1776.90	95.58	Initial Hydro-static
5	16.73	95.76	Open To Flow (1)
10	22.16	97.08	Shut-in(1)
76	957.18	101.16	End Shut-in(1)
76	23.65	100.69	Open To Flow (2)
105	41.13	104.79	Shut-in(2)
140	842.79	106.57	End Shut-in(2)
142	1720.48	106.75	Final Hydro-static

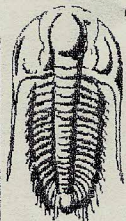
Recovery

Length (ft)	Description	Volume (bbl)

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Staab Oil Co.

33 12s 19w Ellis, KS

1607Hopewell Rd.
Hays KS 67601

Mary-Ann #1

Job Ticket: 51586

DST#: 3

ATTN: Randy Killian

Test Start: 2013.02.08 @ 09:02:00

GENERAL INFORMATION:

Formation: KC "H-L"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:21:30

Time Test Ended: 16:18:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 44

Interval: 3580.00 ft (KB) To 3700.00 ft (KB) (TVD)

Total Depth: 3700.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2129.00 ft (KB)

2124.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8679

Outside

Press@RunDepth: 274.85 psig @ 3681.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.02.08

End Date:

2013.02.08

Last Calib.:

2013.02.08

Start Time: 09:02:00

End Time:

16:18:30

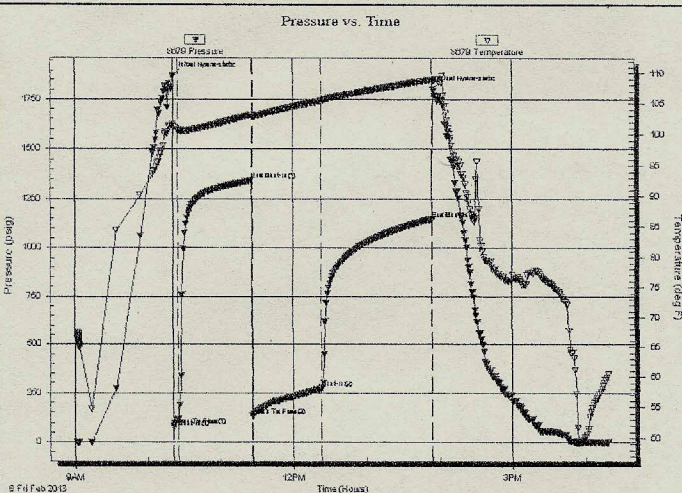
Time On Btm:

2013.02.08 @ 10:21:00

Time Off Btm:

2013.02.08 @ 13:55:00

TEST COMMENT: 05 - IF- 9" blow
60 - IS- No blow back
60 - FF- B.O.B. in 4 Minutes
90 - FS- B.O.B. in 9 Minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1871.40	101.63	Initial Hydro-static
1	81.64	101.23	Open To Flow (1)
5	118.22	100.73	Shut-In(1)
65	1345.21	103.22	End Shut-In(1)
66	132.70	102.85	Open To Flow (2)
123	274.85	105.49	Shut-In(2)
214	1147.56	109.01	End Shut-In(2)
214	1801.31	108.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	HOCM, 60% M, 40% O	0.63
496.00	GO, 30% G, 70% O	3.87
62.00	GO, 5% G, 95% O	0.87
62.00	OCM, 30% O, 70% M	0.87
0.00	124' of G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 51586

Printed: 2013.02.08 @ 16:26:13