



KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1107779

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 # 6037
Name: Staab Oil Co., a General Partnership
Address 1: 1607 HOPEWELL RD
Address 2: _____
City: HAYS State: KS Zip: 67601 + 9443
Contact Person: Francis C. Staab
Phone: (785) 625-5013
CONTRACTOR: License # 5184
Name: Shields Oil Producers Inc.
Wellsite Geologist: Randall Kilian
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 #: _____

11/08/2012 11/16/2012 11/16/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-195-22833-00-00

Spot Description: _____
SW SE NW NE Sec. 28 Twp. 12 S. R. 21 ☐ East ☒ West
1230 Feet from ☒ North / ☐ South Line of Section
1975 Feet from ☒ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☒ NE ☐ NW ☐ SE ☐ SW

County: Trego
Lease Name: Benno Riga Well #: 1
Field Name: _____

Producing Formation: none
Elevation: Ground: 2255 Kelly Bushing: 2250
Total Depth: 3944 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 239 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: 56000 ppm Fluid volume: 800 bbls
Dewatering method used: Evaporated
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: Deanna Garrison Date: 01/15/2013

1107779

Operator Name: Staab Oil Co., a General Partnership Lease Name: Benno Riga Well #: 1
 Sec. 28 Twp. 12 S. R. 21 ☐ East ☒ West County: Trego

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 ☒ Yes ☐ No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey ☒ Yes ☐ No Cores Taken ☐ Yes ☒ No Electric Log Run ☐ Yes ☒ No Electric Log Submitted Electronically ☐ Yes ☐ No <i>(If no, Submit Copy)</i> List All E. Logs Run:	☐ Log Formation (Top), Depth and Datum ☐ Sample Name Top Datum Attached Attached Attached
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CASING RECORD ☐ New ☒ Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Pipe	8.6250	8.6250	20	236	Common	170	

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: ☐ 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

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> ☐ Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Staab Oil Co., a General Partnership
Well Name	Benno Riga 1
Doc ID	1107779

Tops

Anhydrite	1646	+608
Base	1691	+563
Topeka	3294	-1040
Heebner	3515	-1261
Toronto	3536	-1282
Lansing	3549	-1295
BKC	3787	-1533
Marmaton	3853	-1599
Arbuckle	Not Reached	
TD	3944	-1690

ALLIED OIL & GAS SERVICES, LLC 056055

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Russell

DATE <i>11-08-12</i>	SEC <i>29</i>	TWP <i>12</i>	RANGE <i>21</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <i>Beno Riga</i>	WELL # <i>1</i>	LOCATION <i>1-70 Riga Exit</i>			COUNTY <i>Trego</i>	STATE <i>KS</i>	
OLD OR (NEW) (Circle one)				<i>1.5 north to rd K 1/2 west south into.</i>			

CONTRACTOR *Shelds #1*

OWNER *J. O.*

TYPE OF JOB *Surface*

HOLE SIZE *12 1/4* T.D.

CASING SIZE *8 5/8* DEPTH *239.08'*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT *10'*

CEMENT LEFT IN CSG. *15'*

PERFS.

DISPLACEMENT *14.25 bbl*

CEMENT

AMOUNT ORDERED *170 SKS CLASS A 57.00 2/3*

COMMON *170 SKS @ 17.92 \$3,046.40*

POZMIX @

GEL *3 SKS @ 23.40 \$70.20*

CHLORIDE *6 SKS @ 64.00 \$384.00*

ASC @

@

@

@

@

@

@

@

@

HANDLING *185.51 1/3 @ 2.48 \$455.15*

MILEAGE *175.98 1/3 @ 2.60 \$457.55*

TOTAL *\$4,409.55*

EQUIPMENT

PUMP TRUCK CEMENTER *Robert V.*

409 HELPER *Ron R.*

BULK TRUCK

410 DRIVER *WALTER + NATHAN*

BULK TRUCK

DRIVER

REMARKS:

*circulated mud to surface.
run and pumped 170 SKS 31.00 2/3 gal
Displaced Rubber plug at 14.25 bbl
cement came to surface.
Shut Head in.*

SERVICE

DEPTH OF JOB *239.08'*

PUMP TRUCK CHARGE *\$1,512.25*

EXTRA FOOTAGE *21 miles @*

MILEAGE *Heavy Duty @ 7.70 \$161.70*

MANIFOLD *Light Vehicle @ 4.40 \$92.40*

@

@

TOTAL *\$1,766.35*

CHARGE TO: *Staab Oil Co.*

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

6 Rubber plugs 1 @ \$181.00

@

@

@

@

TOTAL *\$181.00*

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 *Thomas J Engel*

SIGNATURE *Thomas J Engel*

SALES TAX (If Any) *246.72*

TOTAL CHARGES *\$6,176.25*

DISCOUNT *\$479.46*

IF PAID IN 30 DAYS

net \$479.46 BS 11-9

before tax \$578.75

Surface

ALLIED OIL & GAS SERVICES, LLC

056577

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Russell KS

DATE 11-16-12	SEC. 29	TWP. 12	RANGE 21	CALLED OUT	ON LOCATION	JOB START 4:00 AM	JOB FINISH 4:30 AM
Benno LEASE Rigg	WELL # 1	LOCATION I-70 & Rignol 3rd 1/2 W into			County Tracy	STATE KS	
OLD OR NEW (Circle one)							

CONTRACTOR Shields

OWNER

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 3944

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 1670

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

EQUIPMENT

PUMP TRUCK CEMENTER Robert V 2

417 HELPER Woody O 2

BULK TRUCK

481 DRIVER Walter K 3

BULK TRUCK

DRIVER

REMARKS:

p1 25 sk @ 1670
p2 100 sk @ 900
p3 40 sk @ 280
p4 10 sk @ 40
30 sk Rothels
15 sk Mouse hole

CEMENT

AMOUNT ORDERED 220 60/40 4% g-1 1/4 #16

COMMON	132	@ 17.90	2362.80
POZMIX	88	@ 9.35	822.80
GEL	8	@ 23.40	187.20
CHLORIDE		@	
ASC		@	
Flu-sol	2050	@ 2.97	148.50

HANDLING	236.67	@ 2.48	586.93
MILEAGE	207.585	@ 2.60	539.72
TOTAL			4647.95

SERVICE

DEPTH OF JOB	1670
PUMP TRUCK CHARGE	2249.84
EXTRA FOOTAGE	@
MILEAGE 21 HVM I	@ 17.70 161.70
MANIFOLD 21 LVMI	@ 4.40 92.40

TOTAL 2503.94

CHARGE TO: Staat Oil

STREET

CITY

STATE

ZIP

PLUG & FLOAT EQUIPMENT

8 5/8 Wooden plug	@ 107.64	107.64
	@	
	@	
	@	

TOTAL 107.64

To: Allied Oil & Gas Services, LLC

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PRINTED NAME Thomas J Enge

SIGNATURE

SALES TAX (If Any) 493.64

TOTAL CHARGES 7259.53

DISCOUNT 2417.42

IF PAID IN 30 DAYS

Net 4842.11 BS 11-19
before tax
Good job Thanks You

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 Benno Rigo #1

FIELD Adair SW (Wildcat per seismic)

LOCATION (legal) Ap. SW SE NW NE
(1230' FNL & 1975' FEL)
Section 28 TWP 12S RGE 21W

(Map) 2 mi N & 1/2 mi W of Riga

COUNTY Trego STATE Kansas

ELEVATION: 2254' K.B., 2249' G.L.

Depths measured from Kelly Bushing

A. P. I. NUMBER 15-195-22823

GEOLOGY BY Randall Kilian

PERTINENT WELL DATA

CONTRACTOR Shields Oil Producers, Inc.

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

DRILL PIPE 4 1/2" X-H COLLARS 6 1/2" 8 (293')

CASING: SURFACE 8 5/8" @ 236' w/ 170 sx Common

PRODUCTION _____

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

TYPE: Chemical

REMARKS: Full service

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

NUMBER OF TESTS Three (3)

ELECTIC LOGS: COMPANY None

DETAIL (5") _____

TYPE _____

DRILLING TIME FROM 3250' TO RTD

SAMPLE TIME FROM 3250' TO RTD

SUPERVISION FROM 3250' TO RTD

VERTICAL DEVIATION 1/4° @ 239', 3/4° @ 3633'

PLUGGING REPORT 25 sx @ 1670', 100 @ 900', 40 @ 280',
10 @ 40', 30 Rat, 15 Mouse, 220 sx 60/40 Poz Ray, Dinkel

RESERVE PIT 800 bbls., Chl. 56,000

DAILY REPORT

DATE:

7 a.m. Depth

RIS ACTIVITY

11-08-12

MIRIL Spud

11-09-12

239!

WOC

11-10-12

1423'

Drilling sand & shale

11-11-12

2407'

Drilling shale & lime

11-12-12

3041

Drilling lime & shale

11-13-12

35831

Drilling LKc lime

11-14-12

36851

Drilling LKc lime

11-15-12

3881

DST #3 Marmaton

11-16-12

3944

TB. Plugged

DRILL STEM TESTS

NO	INTERVAL	IFP/TIME	ISF/TIME	FFP/TIME	FSF/TIME	HP/FHP	RECOVERY
1	LKc C-F 3570- 3633'	20# 66# 5"	656# 60"	73# 261# 60"	611# 90"	1738# 1678#	93' O&W, C, Mud 437' M, C, Wtr. w/ s.c
2	LKc G-K 3647- 3765'	60# 66# 5"	820# 60"	70# 83# 60"	777# 90"	1837# 1818#	248' GIP 60' S1, G&O, C, Mud
3	Marm. 3842- 3881'	31# 32# 5"	1055# 60"	31# 38# 30"	853# 30"	1941# 1920#	10' V, S1, O, C, Mud
4							
5							
6							
7							
8							

Displaced

\$6534.
LCM 2#

MUD RECORD

CHK	DEPTH	WT	VIS	FL	CHL	YP
1	3172'					
2	3360'	8.9	54			
3	3430'	9.0	52			
4	3593'	9.2	48	7.8	1.8k	20
5	3697'	9.2	49	8.0	2k	21
6	3770'	9.4	55			
7	3881'	9.2	50	8.0	2k	20
8	3915'	9.3	56			
9						
10						
11						

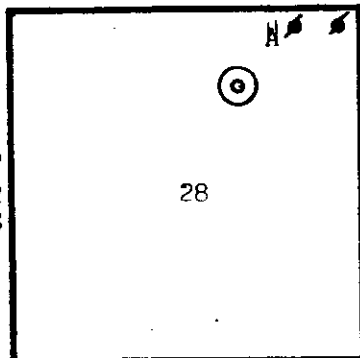
BIT RECORD

NO	SIZE	MAKE	TYPE	DEPTH	FEET	HOURS
1	12 1/2"	Reed	BB	239'	239'	4 3/4
2	7 7/8"	Reed	S-52	3944'	3705'	101 3/4
3						
4						
5						
6						
7						

FORMATION TOPS & STRUCTURAL GEOLOGY

R 21 W

REFERRED TO:



T
12
S

A: STAAB OIL CO.
#1 Staab NW NE NE
B:
C:
D:
E:

STRATIGRAPHIC MARKERS	SUBJECT WELL		STRUCTURAL POSITION				
	SAMPLE	E. LOG	DATUM	A	B	C	D
Anhydrite	1646'		+ 608	+ 600			
Base	1691'		+ 563	+ 556			
Topeka	3294'		-1040	-1041			
Heeb. Sh.	3515'		-1261	-1263			
Tor	3536'		-1282	-1286			
Lansing	3549'		-1295	-1299			
BKc.	3787'		-1533	-1537			
Marmaton	3853'		-1599	-1604			
Arbuckle				-1685			
TD	3944'		-1690	-1701			

Pipe strap 1.21' short.

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

SUMMARY

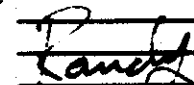
The Benno Biga #1 was drilled with Shields Oil Producers tools rig #2 beginning 11-08-12 and drilling was completed 11-16-12.

The drill site was located via a 3-D seismic survey. The location was a step out from abandoned production to the northeast.

The well ran² a bit structurally to the old producers³⁰ down through the Marmaton. However, the Arbuckle fell off and was low. The lower pay zones did not develop quality reservoirs as shown by DST #2 & #3.

Based upon all data, the well was plugged as a dry hole.

Respectfully,



Randall Kilian

DRILLING TIME (min/ft)

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

SHOWS
FUR
ROD
BIT

LITHOLOGY (LOGGED)

REMARKS

30

40

ANW

1650

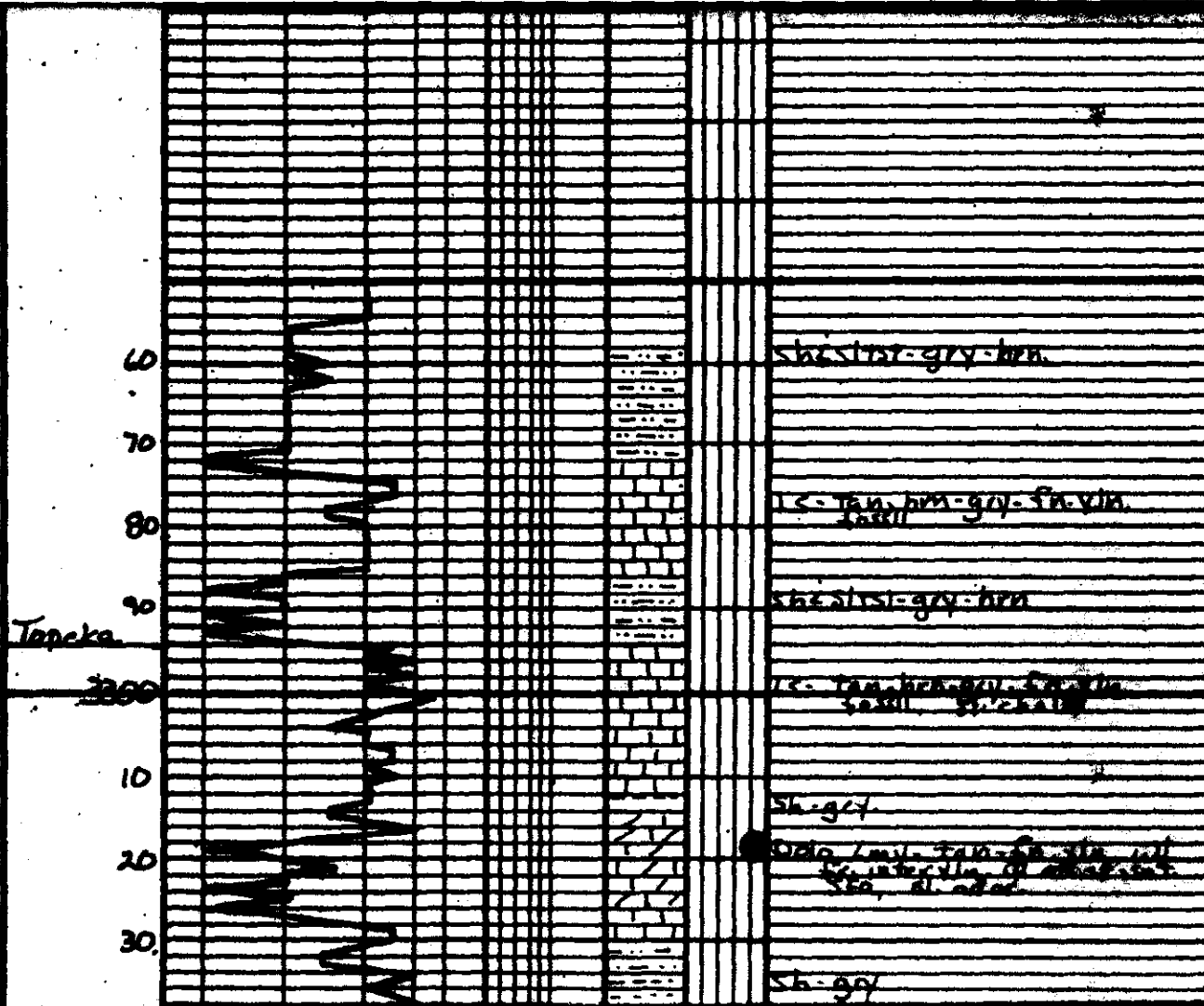
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70

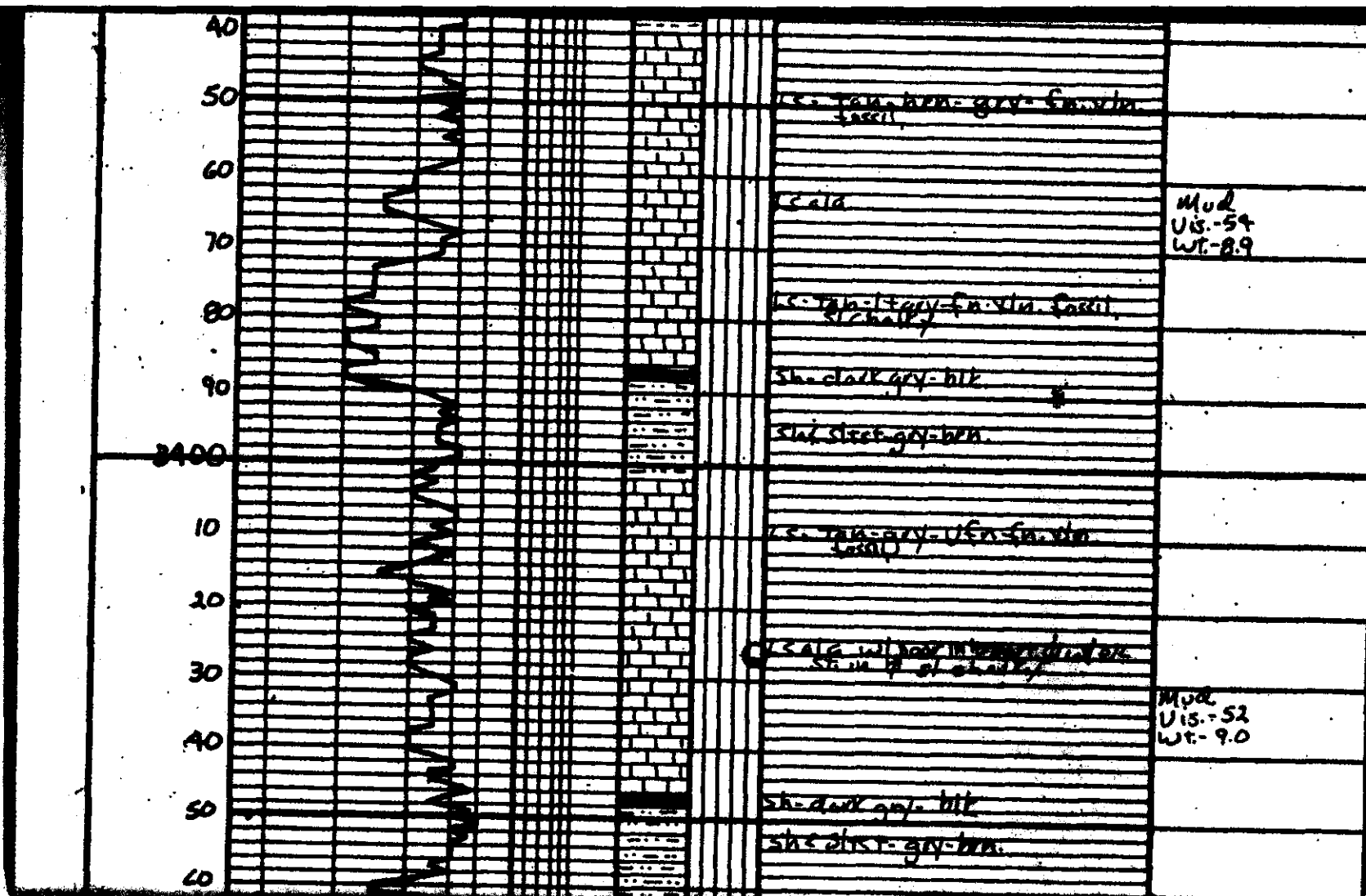
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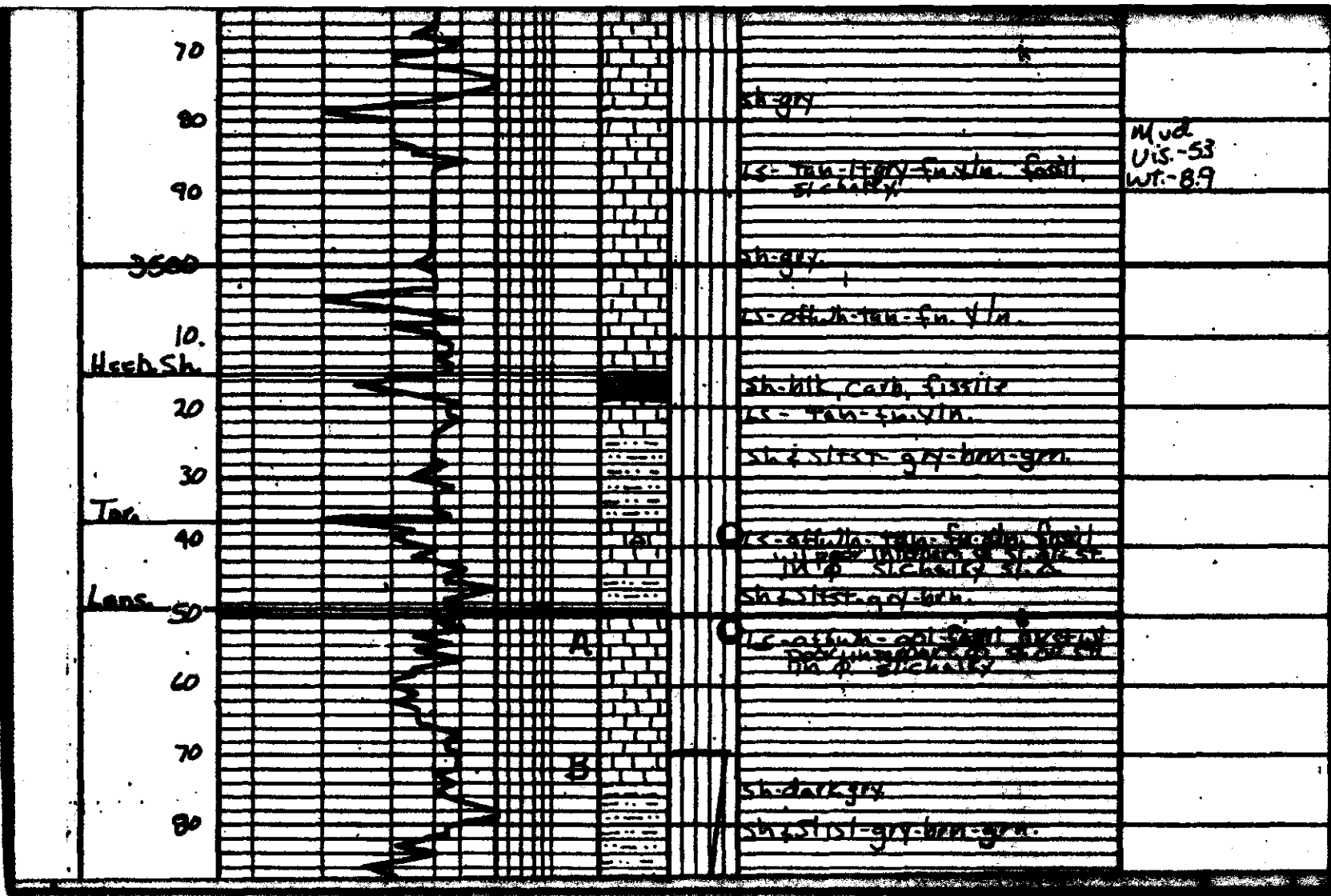
Base 90

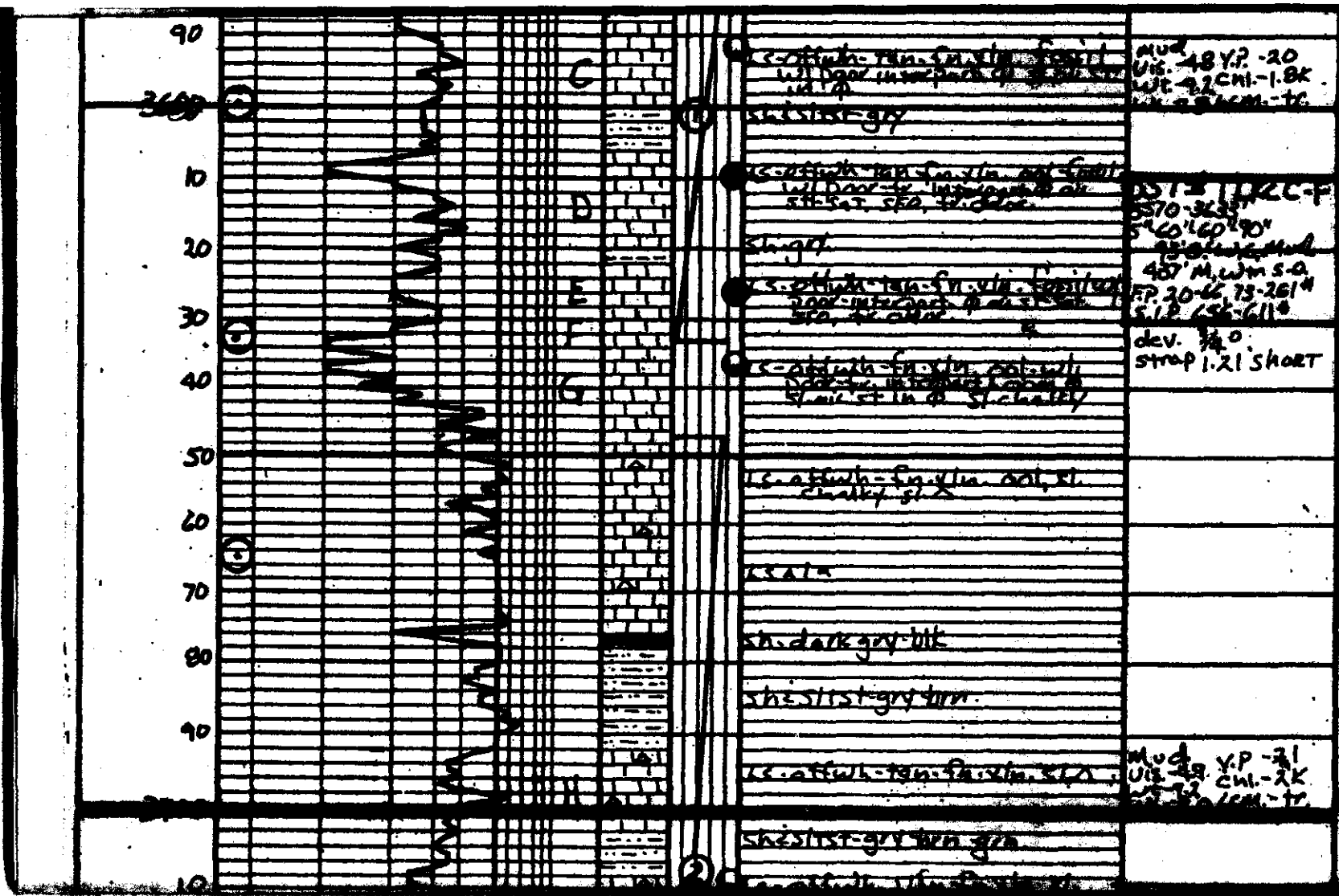
Depth 3072'

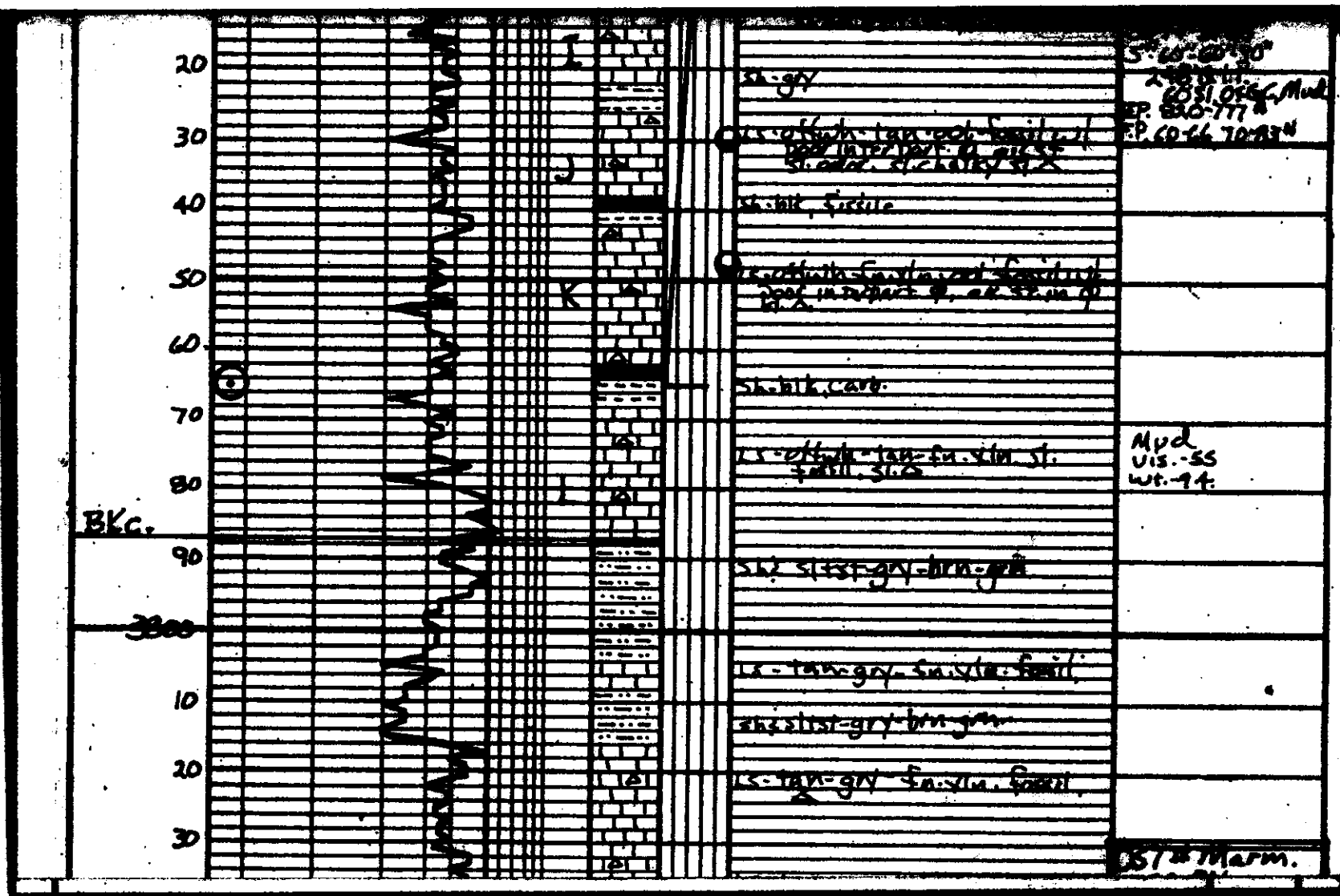


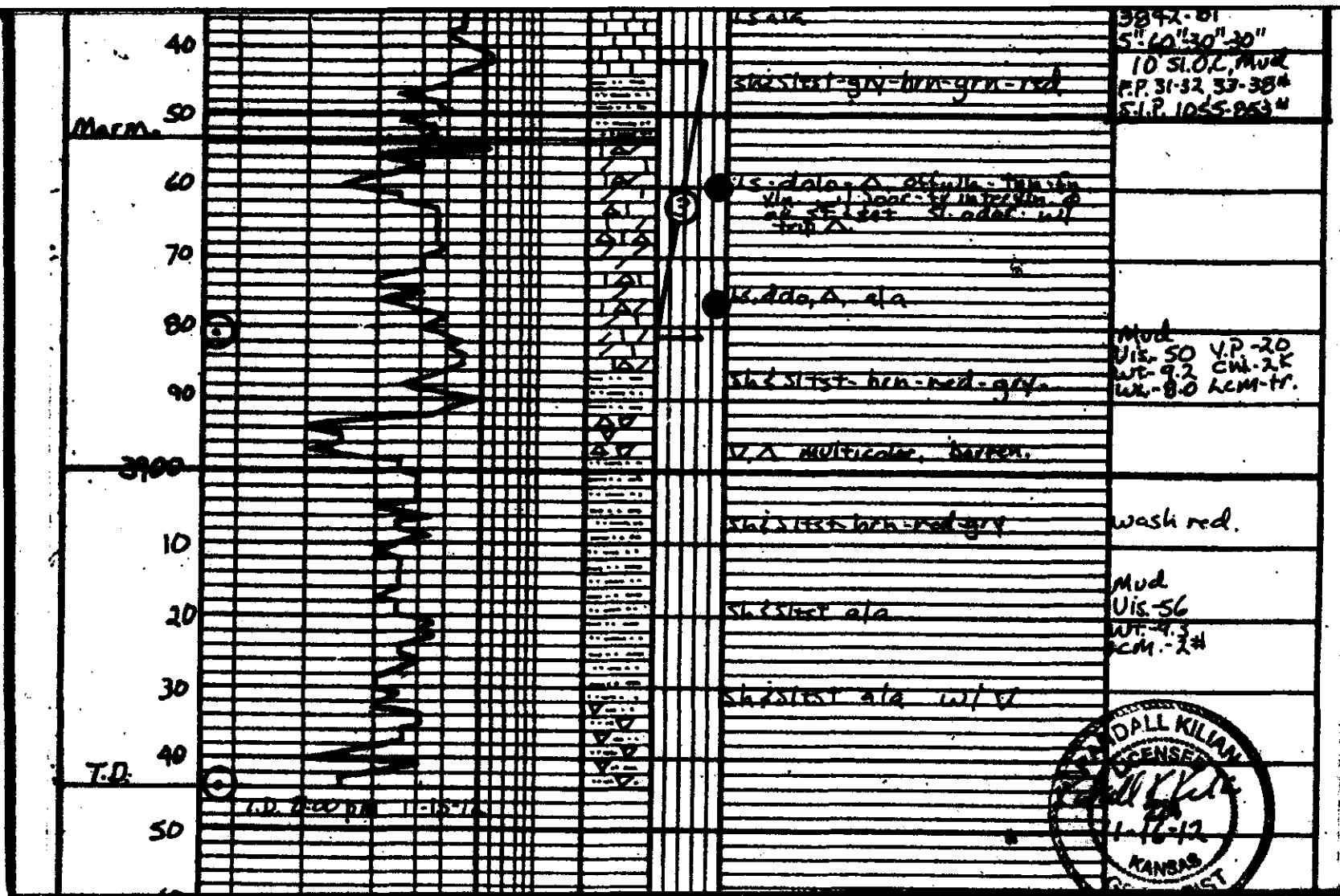
near top location
8:00pm 11-12-02













TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48650

Well Name & No. Benno Riga #1 Test No. 1 Date 11-13-12
 Company STAAH Oil Co. Elevation 2254 KB 2250 GL
 Address 1607 Hopewell Rd. Hays Ks. 67601-9443
 Co. Rep / Geo. Brendy McMillan Rig Shields
 Location: Sec. 28 Twp. 12^s Rge. 21^w Co. Trego State KS

Interval Tested 3570-3633 Zone Tested LKC - "C-F"
 Anchor Length 63 Drill Pipe Run 3089 Mud Wt. 9.2
 Top Packer Depth 3565 Drill Collars Run 0 Vis 48
 Bottom Packer Depth 3570 Wt. Pipe Run 468 WL 2.8
 Total Depth 3633 Chlorides 1800 ppm System LCM Mil

Blow Description IFP - Surface Blow Building to 6 in.

FSIP - No Blow

FFP - Bob in 21 min.

FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>437</u>	<u>mcw show of oil</u>		<u>85</u>	<u>15</u>	
<u>93</u>	<u>0.4 WCM</u>	<u>2</u>	<u>43</u>	<u>55</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 530 BHT 110 Gravity API RW 310 @ 41 °F Chlorides 40000 ppm

(A) Initial Hydrostatic	<u>1738</u>	☒ Test	<u>1150</u>	T-On Location	<u>13:00</u>
(B) First Initial Flow	<u>20</u>	☐ Jars		T-Started	<u>15:00</u>
(C) First Final Flow	<u>66</u>	☐ Safety Joint		T-Open	<u>17:05</u>
(D) Initial Shut-In	<u>656</u>	☐ Circ Sub		T-Pulled	<u>20:40</u>
(E) Second Initial Flow	<u>73</u>	☐ Hourly Standby		T-Out	<u>22:37</u>
(F) Second Final Flow	<u>261</u>	☒ Mileage	<u>52 RT</u> 80.60	Comments	
(G) Final Shut-In	<u>611</u>	☐ Sampler			
(H) Final Hydrostatic	<u>1678</u>	☐ Straddle		☐ Ruined Shale Packer	

Initial Open	<u>5</u>	☐ Shale Packer		☐ Ruined Packer	
Initial Shut-In	<u>60</u>	☐ Extra Packer		☐ Extra Copies	
Final Flow	<u>60</u>	☐ Extra Recorder		Sub Total	<u>0</u>
Final Shut-In	<u>90</u>	☐ Day Standby		Total	<u>1230.60</u>
		☐ Accessibility		MP/DST Disc't	
		Sub Total	<u>1230.60</u>		

Approved By _____

Our Representative _____

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



**TRILOBITE
TESTING INC.**

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51551

Well Name & No. Benno Riga #1 Test No. 2 Date 11-14-12
Company Staab Oil Co & General partners Elevation 2254 KB 2250 GL
Address 1607 Hopewell Rd, Hays KS, 67601
Co. Rep / Geo. Randy Kilian Rig Shields Drilling
Location: Sec. 28 Twp. 12S Rge. 21W Co. Trego State KS

Interval Tested 3647-3765 Zone Tested LKC 'G-K'
Anchor Length 118' Drill Pipe Run 31P4 Mud Wt. 9.2
Top Packer Depth 3642 Drill Collars Run - Vis 49
Bottom Packer Depth 3647 Wt. Pipe Run 468 WL 8
Total Depth 3765 Chlorides 2,000 ppm System LCM -

Blow Description IF- 3/4" blow
ISI- No blow back
FF- 5" blow
FST- No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>Feet of 650CM</u>	<u>5</u>	<u>10</u>	<u>85</u>	
Rec	Feet of <u>248' & G.I.P.</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 60 BHT 107° Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic	(B) First Initial Flow	(C) First Final Flow	(D) Initial Shut-In	(E) Second Initial Flow	(F) Second Final Flow	(G) Final Shut-In	(H) Final Hydrostatic
<u>1937</u>	<u>60</u>	<u>66</u>	<u>820</u>	<u>70</u>	<u>83</u>	<u>777</u>	<u>1818</u>

Initial Open 05
Initial Shut-In 60
Final Flow 60
Final Shut-In 90

☒ Test 1150
☐ Jars
☐ Safety Joint
☐ Circ Sub
☐ Hourly Standby
☒ Mileage 50X2 80.60
☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
Sub Total 1230.60

T-On Location 1:37pm
T-Started 2:00pm
T-Open 3:49pm
T-Pulled 7:24pm
T-Out 9:19pm
Comments
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
Sub Total 0
Total 1230.60
MP/DST Disc't

Approved By _____ Our Representative Cody B...

Triobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51552

Well Name & No. Benno Riga #1 Test No. 3 Date 11-15-12
Company Staach oil & General partners Elevation 2254 KB 2256 GL
Address 1607 Hopewell Rd. Hays KS, 67601
Co. Rep / Geo. Randy Killian Rig Shields Drilling
Location: Sec. 28 Twp. 12s Rge. 21w Co. Trego State KS

Interval Tested 3842-3881 Zone Tested Marmaton
Anchor Length 39' Drill Pipe Run 3371 Mud Wt. 9.2
Top Packer Depth 3837 Drill Collars Run — Vis 50
Bottom Packer Depth 3842 Wt. Pipe Run 468 WL 8.0
Total Depth 3881 Chlorides 2,000 ppm System LCM —

Blow Description IF-1/4" blow
ISI- No blow back
FF- No blow for 20 Min. flushed, surged & dired
FSI- No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>USOCM</u>	<u>5</u>		<u>95</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 113° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1941</u>	☒ Test <u>1150</u>	T-On Location <u>8:54am</u>
(B) First Initial Flow <u>31</u>	☐ Jars <u>—</u>	T-Started <u>9:15am</u>
(C) First Final Flow <u>32</u>	☐ Safety Joint <u>—</u>	T-Open <u>11:18am</u>
(D) Initial Shut-In <u>1055</u>	☐ Circ Sub <u>—</u>	T-Pulled <u>1:23pm</u>
(E) Second Initial Flow <u>33</u>	☐ Hourly Standby <u>—</u>	T-Out <u>2:43pm</u>
(F) Second Final Flow <u>38</u>	☒ Mileage <u>100 RT</u> <u>161.20</u>	Comments <u>loaded tools @ 20:00</u>
(G) Final Shut-In <u>853</u>	☐ Sampler <u>—</u>	
(H) Final Hydrostatic <u>1920</u>	☐ Straddle <u>—</u>	☐ Ruined Shale Packer <u>—</u>

Initial Open <u>05</u>	☐ Shale Packer <u>—</u>	☐ Ruined Packer <u>—</u>
Initial Shut-In <u>60</u>	☐ Extra Packer <u>—</u>	☐ Extra Copies <u>—</u>
Final Flow <u>30</u>	☐ Extra Recorder <u>—</u>	Sub Total <u>0</u>
Final Shut-In <u>30</u>	☐ Day Standby <u>—</u>	Total <u>1311.20</u>
	☐ Accessibility <u>—</u>	MP/DST Disc't <u>—</u>
	Sub Total <u>1311.20</u>	

Approved By —

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