KOLAR Document ID: 1713668

Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5193
Name: Barnard, R.L. dba Barnard Oil Operations
Address 1: 3585 Wildcat Lane
Address 2: PO BOX 535
City: MADISON State: KS Zip: 66860 + 0535
Contact Person: Dick Barnard
Phone: (620) 437-2131
CONTRACTOR: License # 33734
Name: Hat Drilling LLC
Wellsite Geologist: Jarred Leis
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☑ Oil ☐ WSW ☐ SWD
☐ Gas ☐ DH ☐ EOR
☐ OG ☐ GSW
☐ 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 EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ EOR Permit #:
☐ GSW Permit #:

12/30/2022 Spud Date or Recompletion Date
12/30/2022 Date Reached TD
4/12/2023 Completion Date or Recompletion Date

API No.: 15-073-24250-00-00
Spot Description: NE SW N2 C
NE - NW - SE - NE Sec. 22 Twp. 22 S. R. 11 ☑ East ☐ West
1430 Feet from ☑ North / ☐ South Line of Section
675 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Greenwood
Lease Name: GARTH-HESS Well #: 17
Field Name:
Producing Formation: Bartlesville Sd
Elevation: Ground: 1202 Kelly Bushing: 0
Total Vertical Depth: 1975 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 105 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: 0 ppm Fluid volume: 20 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
☐ **Confidentiality Requested**
Date:
☐ **Confidential Release Date:**
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** David Befort **Date:** 06/14/2023

Operator Name: Barnard, R.L. dba Barnard Oil Operations Lease Name: GARTH-HESS Well #: 17

Sec. 22 Twp. 22 S. R. 11 ☑ East ☐ West County: Greenwood

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken *(Attach Additional Sheets)*	☐ Yes	☑ No
Samples Sent to Geological Survey	☐ Yes	☑ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:

Midwest Surveys

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Bartlesville	1882	1932

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	11	8.625	24	105	Class A	60	5%
Production	6.75	4.5	11.6	1973	Thick set	70	0

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	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/ Injection: 4/12/2023	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:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:	
		Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	1882	1932

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
1	1882	1932			

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Barnard, R.L. dba Barnard Oil Operations
Well Name	GARTH-HESS 17
Doc ID	1713668

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	11	8.625	24	105	Class A	60	5%
Production	6.75	4.5	11.6	1973	Thick set	70	0

Elite Cementing & Acidizing of KS, LLC
PO Box 92
Eureka, KS 67045

Date	Invoice #
12/26/2022	6935

Bill To
Barnard Oil Operations PO Box 535 Madison, KS 66860

Customer ID#	1145

Job Date	12/20/2022
Lease Information	
Garth-Hess #17	
County	Greenwood
Foreman	KM

			Terms	Net 15
Item	Description	Qty	Rate	Amount
C101	Cement Pump-Surface	1	950.00	950.00
C107	Pump Truck Mileage (one way)	35	5.00	175.00
C200	Class A Cement-94# sack	60	18.55	1,113.00T
C205	Calcium Chloride	170	0.75	127.50T
C206	Gel Bentonite	115	0.30	34.50T
C108A	Ton Mileage (min. charge)	1	390.00	390.00
C113	80 Bbl Vac Truck	2	95.00	190.00
C224	City Water	2,000	0.012	24.00T
D101	Discount on Services		-85.25	-85.25
D102	Discount on Materials		-64.94	-64.94T

We appreciate your business!

Phone #	Fax #	E-mail
620-583-5561	620-583-5524	rene@elitecementing.com

Send payment to:
Elite Cementing & Acidizing of KS, LLC
PO Box 92
Eureka, KS 67045

Subtotal	$2,853.81
Sales Tax (7.5%)	$92.55
Total	$2,946.36
Payments/Credits	$0.00
Balance Due	$2,946.36

Pd 12-31-2022
IDC

Elite Cementing & Acidizing of KS, LLC
PO Box 92
Eureka, KS 67045

Date	Invoice #
12/31/2022	6955

Bill To
Barnard Oil Operations PO Box 535 Madison, KS 66860

Customer ID#	1145

Job Date	12/30/2022
Lease Information	
Garth-Hess #17	
County	Greenwood
Foreman	RM

			Terms	Net 15
Item	Description	Qty	Rate	Amount
C102	Cement Pump-Longstring	1	1,180.00	1,180.00
C107	Pump Truck Mileage (one way)	35	5.00	175.00
C201	Thick Set Cement	70	24.25	1,697.50T
C207	KolSeal	350	0.56	196.00T
C208	Pheno Seal	140	1.55	217.00T
C108A	Ton Mileage (min. charge)	1	390.00	390.00
C113	80 Bbl Vac Truck	2.5	95.00	237.50
C224	City Water	4,000	0.012	48.00T
C653	4 1/2" Flapper Type Float Shoe	1	295.00	295.00T
C403	4 1/2" Top Rubber Plug	1	57.00	57.00T
D101	Discount on Services		-99.11	-99.11
D102	Discount on Materials		-125.53	-125.53T

We appreciate your business!

Phone #	Fax #	E-mail
620-583-5561	620-583-5524	rene@elitecementing.com

Send payment to:
Elite Cementing & Acidizing of KS, LLC
PO Box 92
Eureka, KS 67045

Subtotal	$4,268.36
Sales Tax (7.5%)	$178.87
Total	$4,447.23
Payments/Credits	$0.00
Balance Due	$4,447.23

Pd 12-31-2022
IPC

Operator
Barnard Oil Operations

Well Name
Garth-Hess #17

Operator Address
PO Box 535
Madison, KS 66860

Well Information

Field: Seeley-Wick
Region:
Coordinates: 1430' FNL / 675' FEL

Location: Sec 22 Twp 22 Rge 11E
State: Kansas, Greenwood
API Index: 15-073-24250
Rig Operator: HAT Drilling, LLC

Ground Elevation(ft): 1202.0
KB Elevation(ft): 1202.0
Spud Date: 12-21-22
Drilling Concluded: 12-28-22
Barnard Oil Operations Geologist(s):

Rig Supervisor(s):
Mike Thompson

Hole Data

12" Hole drilled for surface pipe
6 3/4" Hole drilled from under Surface to TD

Casing Data

Surface Pipe:	200'	8 5/8"
Production Casing:	1973'	4 1/2"

Legend - Scale 1:240 (1" = 20')

Notes

Due to oil shows in the Bartelsville Sandstone the decision was made to set 4 1/2" casing to further evaluate this zone through perforations.

Log Images

- Bit Trip
- Midnight
- Gas Show
- Oil Show
- Casing Show
- AM Report
- PM Report
- Tight Connection
- Fracture

Lithology

Graph Curves

Legend - Scale 1:240 (1" = 20')

Notes

Due to oil shows in the Bartelsville Sandstone the decision was made to set 4 1/2" casing to further evaluate this zone through perforations.

Lithology

- Anhydrite
- Bentonite
- Breccia
- Carbonaceous Shale
- Cement
- Chert
- Claystone
- Coal
- Conglomerate
- Dolomite
- Fault or Fracture
- Glauconite
- Gypsum
- Limestone
- Marlstone
- Mudstone
- Salt
- Sandstone
- Shale
- Siltstone

Graph Curves

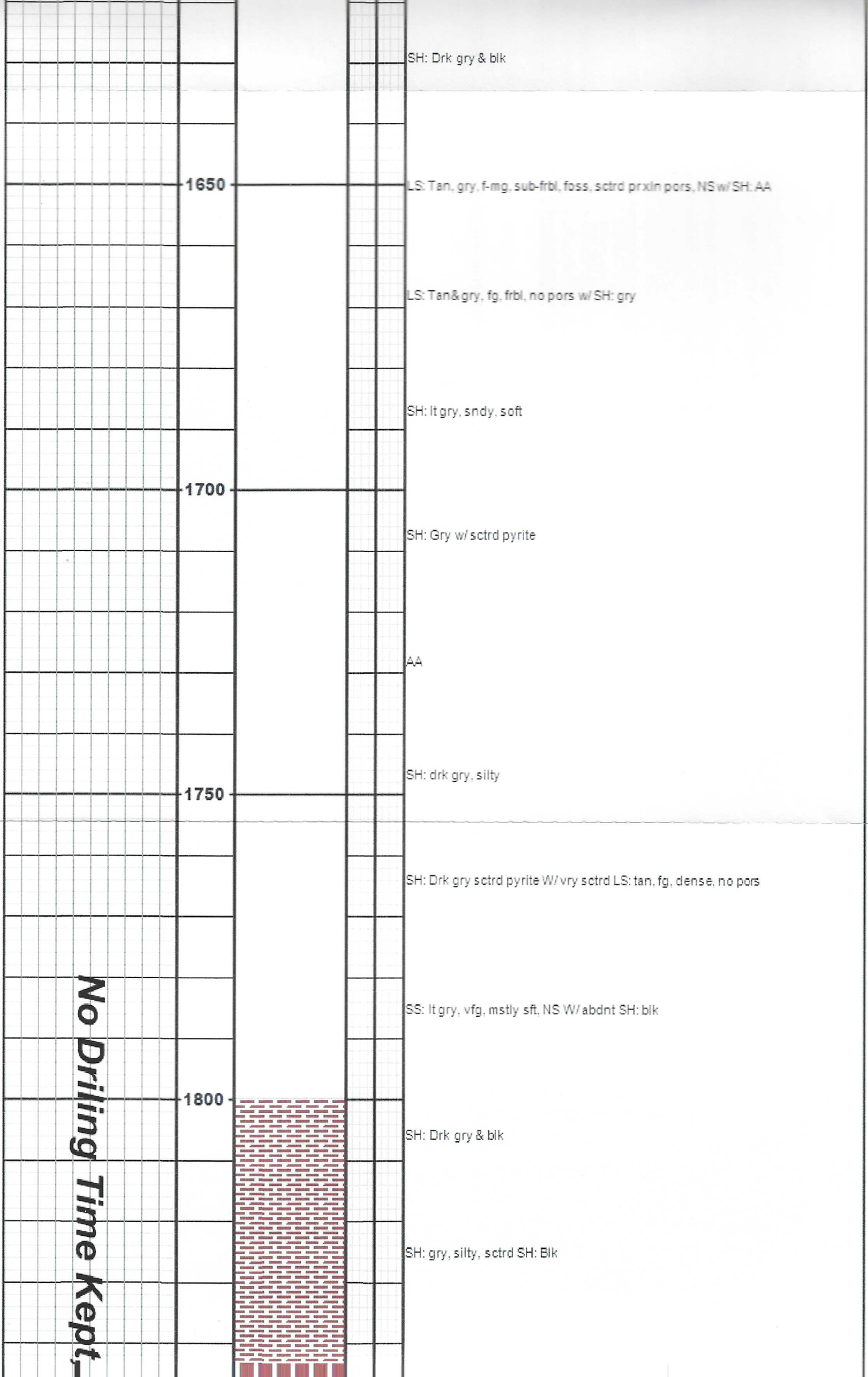
Graph =1

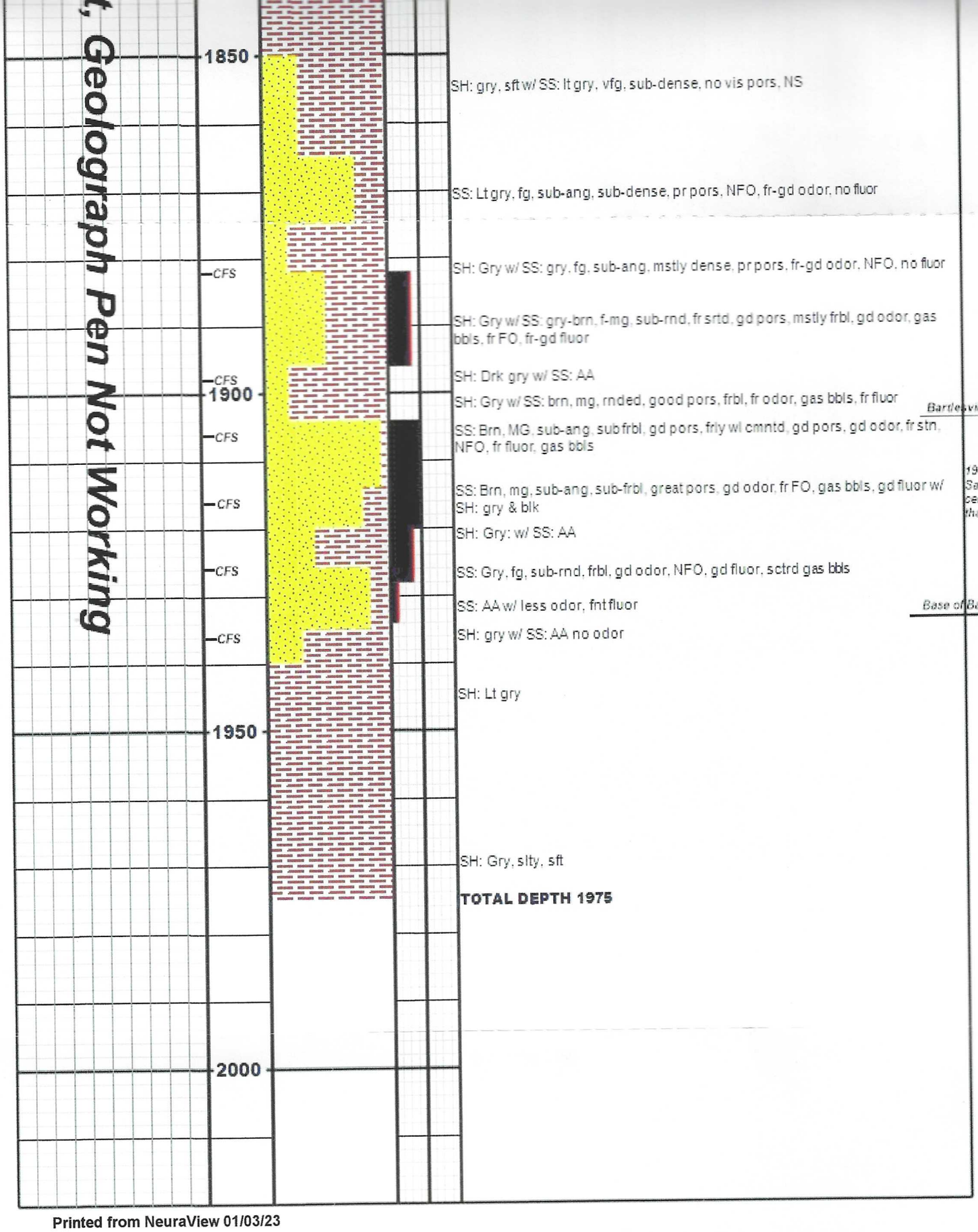
Log Images

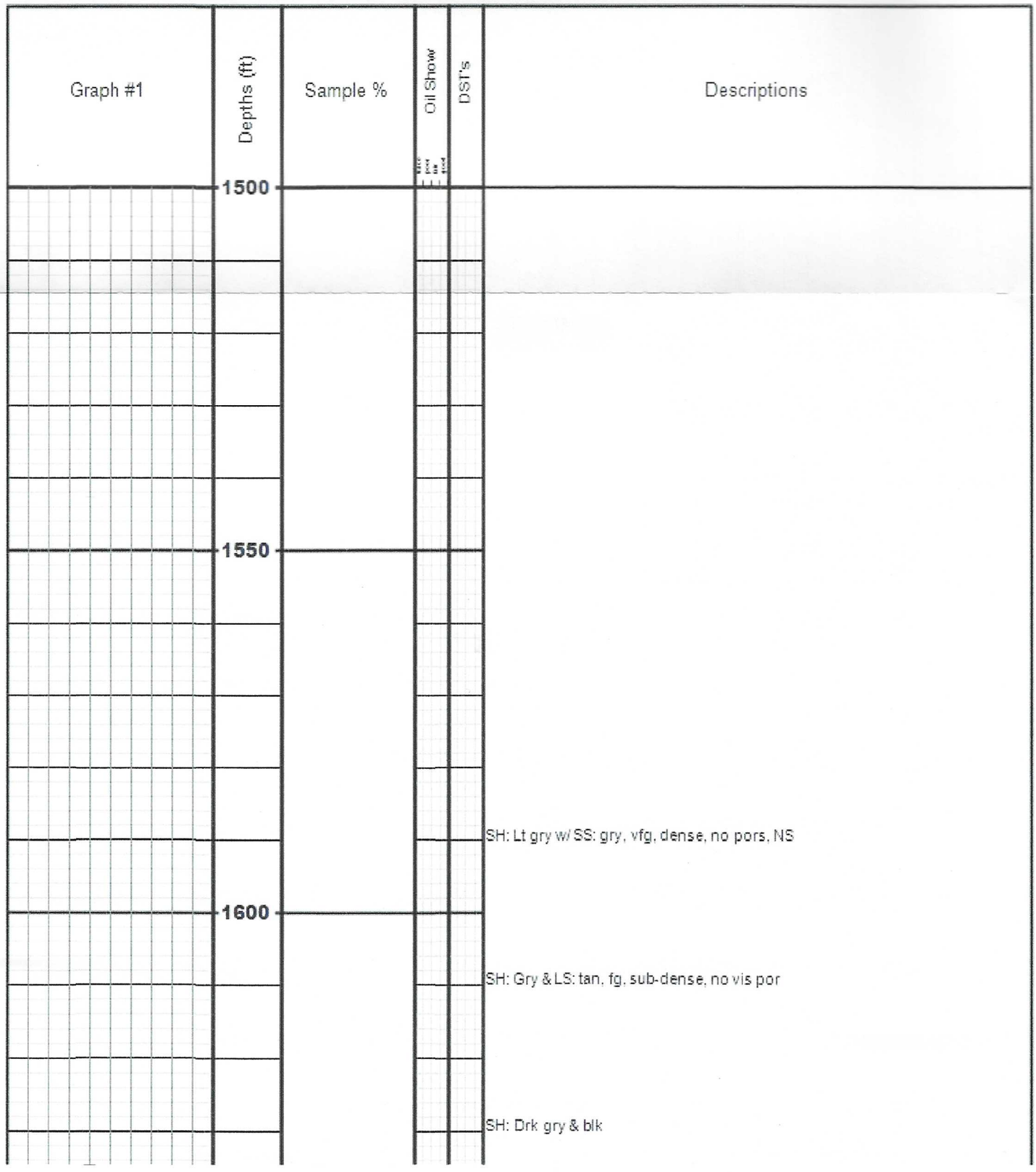
- Bit Trip
- Midnight
- Gas Show
- Oil Show
- Casing Show
- AM Report
- PM Report
- Tight Connection
- Fracture
- Formation Top
- Formation Mem
- Pressure Test
- Carbonaceous
- Calcite
- Kaolinite
- Survey
- Pyrite
- Fossil
- Connection

Intervals

- Circulation
- Connections
- Tops
- Slide
- Rotate
- Core
- Recovered Core
- Circulation


SH: Drk gry & blk
1650
LS: Tan, gry, f-mg, sub-frbl, foss, sctrd prxln pors, NS w/ SH: AA
LS: Tan&gry, fg, frbl, no pors w/ SH: gry
SH: lt gry, sndy, soft
1700
SH: Gry w/ sctrd pyrite
AA
SH: drk gry, silty
1750
SH: Drk gry sctrd pyrite W/ vry sctrd LS: tan, fg, dense, no pors
SS: lt gry, vfg, mstly sft, NS W/ abdnt SH: blk
1800
SH: Drk gry & blk
SH: gry, silty, sctrd SH: Blk
No Driling Time Kept


1850
1900
1950
2000
CFS
CFS
CFS
CFS
CFS
CFS
SH: gry, sft w/ SS: lt gry, vfg, sub-dense, no vis pors, NS
SS: Lt gry, fg, sub-ang, sub-dense, pr pors, NFO, fr-gd odor, no fluor
SH: Gry w/ SS: gry, fg, sub-ang, mstly dense, pr pors, fr-gd odor, NFO, no fluor
SH: Gry w/ SS: gry-brn, f-mg, sub-rnd, fr srtd, gd pors, mstly frbl, gd odor, gas bbls, fr FO, fr-gd fluor
SH: Drk gry w/ SS: AA
SH: Gry w/ SS: brn, mg, rnded, good pors, frbl, fr odor, gas bbls, fr fluor
Bartlesville Sand 1905
SS: Brn, MG, sub-ang, sub frbl, gd pors, frly wl cmntd, gd pors, gd odor, fr stn, NFO, fr fluor, gas bbls
1916 Sample's Sand less cemented than 1906
SS: Brn, mg, sub-ang, sub-frbl, great pors, gd odor, fr FO, gas bbls, gd fluor w/ SH: gry & blk
SH: Gry: w/ SS: AA
SS: Gry, fg, sub-rnd, frbl, gd odor, NFO, gd fluor, sctrd gas bbls
SS: AA w/ less odor, fnt fluor
Base of Bartlesville 193
SH: gry w/ SS: AA no odor
SH: Lt gry
SH: Gry, slty, sft
TOTAL DEPTH 1975
t, Geograph Pen Not Working


Graph #1
Depths (ft)
Sample %
Oil Show
DST's
Descriptions
1500
1550
1600
SH: Lt gry w/ SS: gry, vfg, dense, no pors, NS
SH: Gry & LS: tan, fg, sub-dense, no vis por
SH: Drk gry & blk