

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 # \_\_\_\_\_

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

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 #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical 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**

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: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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](mailto: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 <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 Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No 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				

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:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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 <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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Hartman Oil Co., Inc.
Well Name	HEYEN 1-3
Doc ID	1642368

All Electric Logs Run

Comp Density Neutron
Dual Induction
Micro Log
Sonic Log

Form	ACO1 - Well Completion
Operator	Hartman Oil Co., Inc.
Well Name	HEYEN 1-3
Doc ID	1642368

Tops

Name	Top	Datum
Topeka	3025	-1120
Hebner/Shale	3343	-1438
Toronto	3360	-1455
Douglas Shale	3378	-1473
Brown Lime	3486	-1581
LKC	3506	-1601
Muncie Creek	3636	-1731
BKC	3770	-1865
Mississippian	3804	-1899
Viola	3838	-1933
Simpson Shale	3972	-2067
Simpson Sand	3972	-2067
Arbuckle	4027	-2122





# Company: Hartman Oil Company, Inc.

## Lease: Heyen #1-3

SEC: 2 TWN: 24S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 20  
Elevation: 1894 GL  
Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

**Operation:**  
Uploading recovery & pressures

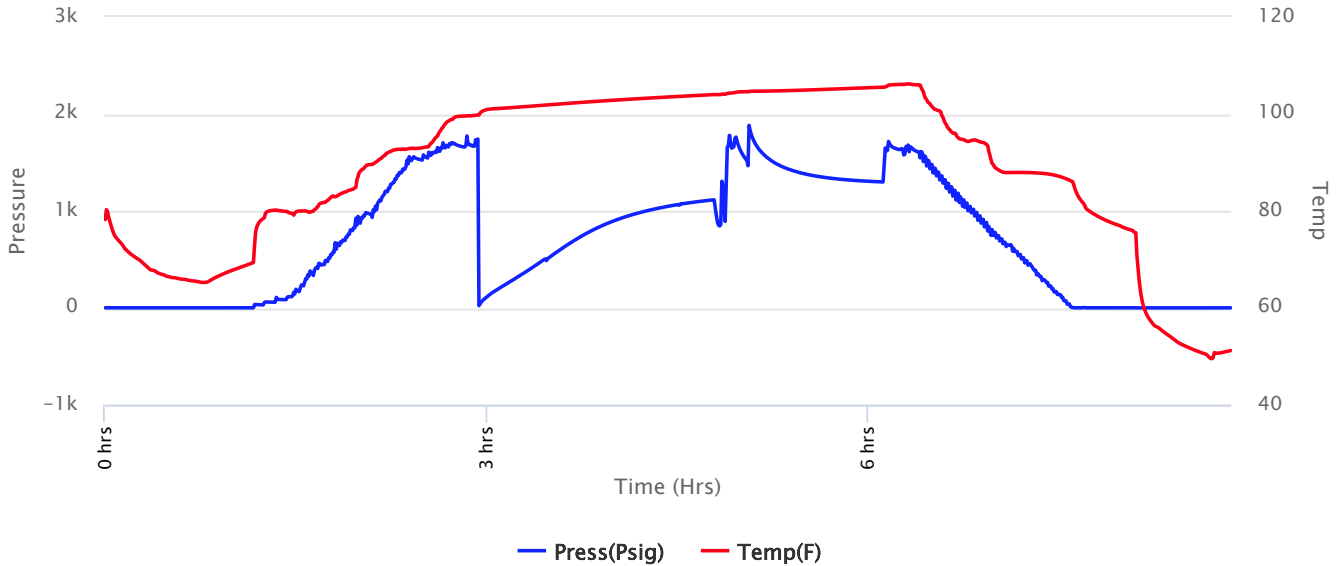
**DATE**  
April  
**18**  
2022

**DST #1**      **Formation: Lans C**      **Test Interval: 3517 - 3550'**      **Total Depth: 3550'**  
Time On: 15:39 04/18      Time Off: 00:21 04/19  
Time On Bottom: 18:37 04/18      Time Off Bottom: 21:37 04/18

Electronic Volume Estimate:  
5'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 30	Minutes: 60	Minutes: 30	Minutes: 60
Current Reading: .1" at 30 min	Current Reading: 0" at 60 min	Current Reading: 0" at 30 min	Current Reading: 0" at 60 min
Max Reading: .2"	Max Reading: 0"	Max Reading: 0"	Max Reading: 0"

Inside Recorder





# Company: Hartman Oil Company, Inc.

## Lease: Heyen #1-3

SEC: 2 TWN: 24S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 20  
Elevation: 1894 GL  
Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

**Operation:**  
Uploading recovery & pressures

**DATE**  
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Time On: 15:39 04/18      Time Off: 00:21 04/19  
Time On Bottom: 18:37 04/18      Time Off Bottom: 21:37 04/18

Recovered

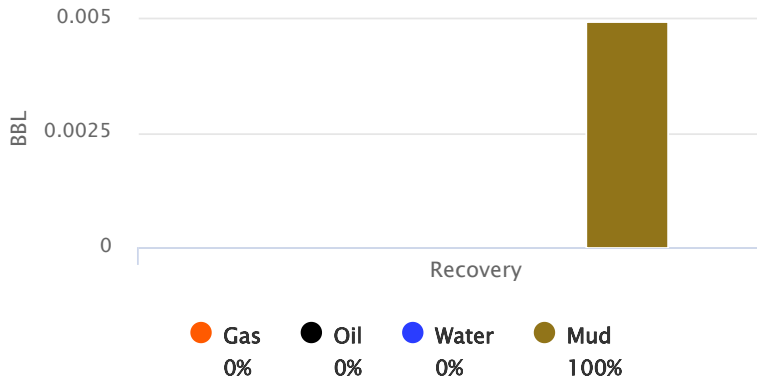
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
1	0.00492	M	0	0	0	100

Total Recovered: 1 ft  
Total Barrels Recovered: 0.00492

**Reversed Out**  
NO

Initial Hydrostatic Pressure	1669	PSI
Initial Flow	0	PSI
<b>Initial Closed in Pressure</b>	<b>0</b>	<b>PSI</b>
Final Flow Pressure	0	PSI
<b>Final Closed in Pressure</b>	<b>0</b>	<b>PSI</b>
Final Hydrostatic Pressure	1688	PSI
Temperature	106	°F
Pressure Change Initial Close / Final Close	0.0	%

### Recovery at a glance



GIP cubic foot volume: 0



**Company: Hartman Oil  
Company, Inc.**

**Lease: Heyen #1-3**

SEC: 2 TWN: 24S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 20  
Elevation: 1894 GL  
Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
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**3550'**  
Time On: 15:39 04/18      Time Off: 00:21 04/19  
Time On Bottom: 18:37 04/18      Time Off Bottom: 21:37 04/18

**BUCKET MEASUREMENT:**

1st Open: WSB. Built to 1/4 inch in 30 minutes  
1st Close: NOBB  
2nd Open: No Blow  
2nd Close: NOBB

**REMARKS:**

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud





**Company: Hartman Oil  
Company, Inc.**

**Lease: Heyen #1-3**

SEC: 2 TWN: 24S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 20  
Elevation: 1894 GL  
Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

**Operation:**  
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pressures

**DATE**  
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**DST #1      Formation: Lans C      Test Interval: 3517 -      Total Depth: 3550'**  
**3550'**  
Time On: 15:39 04/18      Time Off: 00:21 04/19  
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**Down Hole Makeup**

<b>Heads Up:</b> 24.74 FT	<b>Packer 1:</b> 3512 FT
<b>Drill Pipe:</b> 3332.28 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3517 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3501.42 FT
<b>Collars:</b> 176.89 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3516 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 33	<b>Surface Choke:</b> 1"
<b><u>Anchor Makeup</u></b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/2</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 32 FT <i>4 1/2-FH</i>	



**Company: Hartman Oil  
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**Lease: Heyen #1-3**

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Company, Inc - Rig 20  
Elevation: 1894 GL  
Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

**Operation:**  
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pressures

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**3550'**  
Time On: 15:39 04/18      Time Off: 00:21 04/19  
Time On Bottom: 18:37 04/18      Time Off Bottom: 21:37 04/18

**Mud Properties**

**Mud Type:** Chem      **Weight:** 8.9      **Viscosity:** 60      **Filtrate:** 9.2      **Chlorides:** 11000 ppm



**Company: Hartman Oil  
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**Lease: Heyen #1-3**

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Company, Inc - Rig 20  
Elevation: 1894 GL  
Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

**Operation:**  
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**DST #1      Formation: Lans C      Test Interval: 3517 -      Total Depth: 3550'**  
**3550'**  
Time On: 15:39 04/18      Time Off: 00:21 04/19  
Time On Bottom: 18:37 04/18      Time Off Bottom: 21:37 04/18

**Gas Volume Report**

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
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# Company: Hartman Oil Company, Inc.

## Lease: Heyen #1-3

SEC: 2 TWN: 24S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 20  
Elevation: 1894 GL  
Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

**Operation:**  
Uploading recovery & pressures

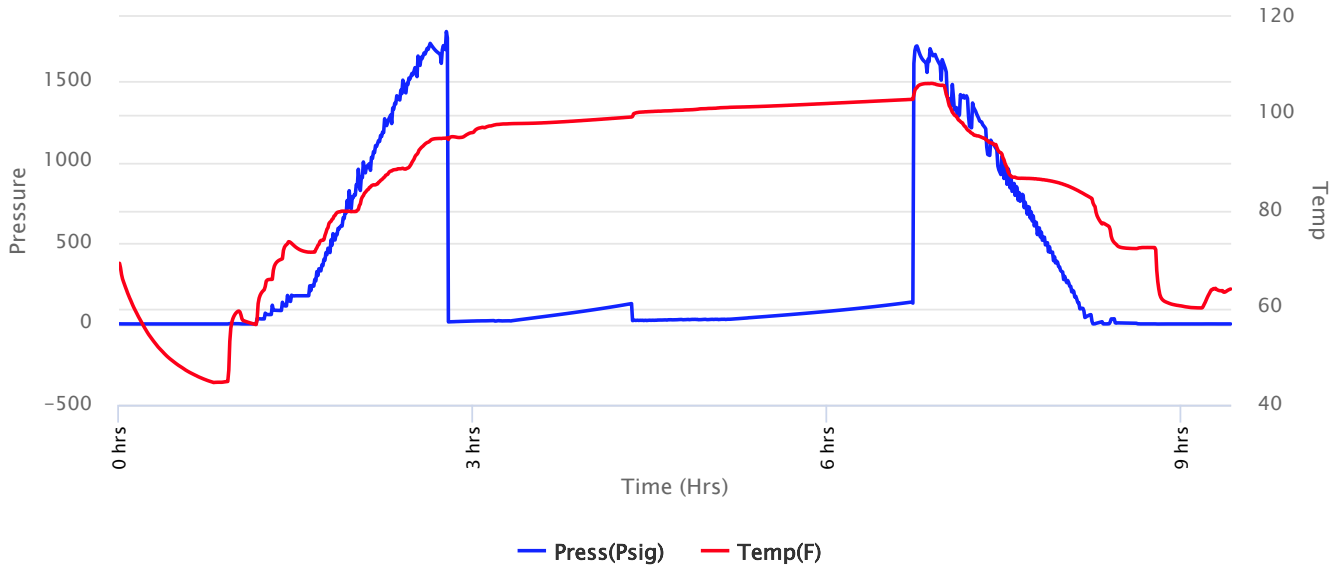
**DATE**  
April  
**19**  
2022

**DST #2**      **Formation: Lans C**      **Test Interval: 3520 - 3550'**      **Total Depth: 3550'**  
Time On: 05:49 04/19      Time Off: 15:00 04/19  
Time On Bottom: 08:35 04/19      Time Off Bottom: 12:20 04/19

Electronic Volume Estimate:  
101'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 30	Minutes: 60	Minutes: 45	Minutes: 90
Current Reading: 1.4" at 30 min	Current Reading: .1" at 60 min	Current Reading: 2.3" at 45 min	Current Reading: .1" at 90 min
Max Reading: 1.4"	Max Reading: .1"	Max Reading: 2.3"	Max Reading: .1"

Inside Recorder





**Company: Hartman Oil Company, Inc.**

**Lease: Heyen #1-3**

SEC: 2 TWN: 24S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 20  
 Elevation: 1894 GL  
 Field Name: Gray North Ext  
 Pool: Infield  
 Job Number: 564  
 API #: 15-185-24107

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 April  
**19**  
 2022

**DST #2**      **Formation: Lans C**      **Test Interval: 3520 - 3550'**      **Total Depth: 3550'**  
 Time On: 05:49 04/19      Time Off: 15:00 04/19  
 Time On Bottom: 08:35 04/19      Time Off Bottom: 12:20 04/19

Recovered

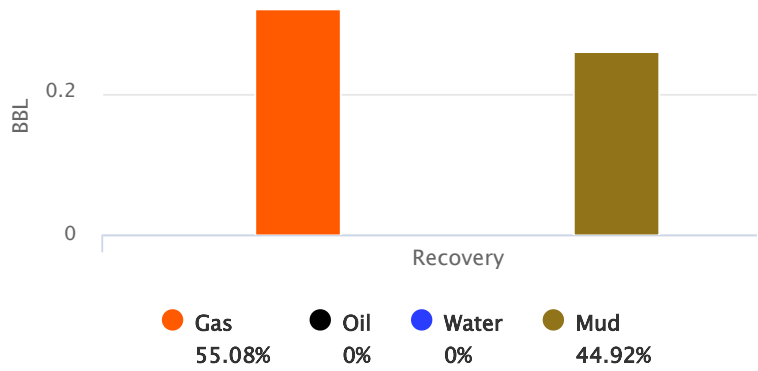
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
65	0.3198	G	100	0	0	0
53	0.26076	OSM	0	0	0	100

Total Recovered: 118 ft  
 Total Barrels Recovered: 0.58056

**Reversed Out**  
 NO

Initial Hydrostatic Pressure	1611	PSI
Initial Flow	13 to 19	PSI
<b>Initial Closed in Pressure</b>	<b>125</b>	<b>PSI</b>
Final Flow Pressure	21 to 28	PSI
<b>Final Closed in Pressure</b>	<b>134</b>	<b>PSI</b>
Final Hydrostatic Pressure	1611	PSI
Temperature	103	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**



GIP cubic foot volume: 1.79552



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Company, Inc - Rig 20  
Elevation: 1894 GL  
Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

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**DST #2      Formation: Lans C      Test Interval: 3520 -      Total Depth: 3550'**  
**3550'**  
Time On: 05:49 04/19      Time Off: 15:00 04/19  
Time On Bottom: 08:35 04/19      Time Off Bottom: 12:20 04/19

**BUCKET MEASUREMENT:**

1st Open: WSB. Built to 1 1/2 inches in 30 minutes  
1st Close: Weak blow Back  
2nd Open: 3/4" Blow. Built to 2 1/4 inch in 45 minutes  
2nd Close: Weak Blow Back

**REMARKS:**

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud



**Company: Hartman Oil  
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**Lease: Heyen #1-3**

SEC: 2 TWN: 24S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 20  
Elevation: 1894 GL  
Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

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**DST #2      Formation: Lans C      Test Interval: 3520 -      Total Depth: 3550'**  
**3550'**  
Time On: 05:49 04/19      Time Off: 15:00 04/19  
Time On Bottom: 08:35 04/19      Time Off Bottom: 12:20 04/19

**Down Hole Makeup**

<b>Heads Up:</b> 21.56 FT	<b>Packer 1:</b> 3515 FT
<b>Drill Pipe:</b> 3332.1 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3520 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3504.42 FT
<b>Collars:</b> 176.89 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> -28 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 30	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/2</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 29 FT <i>4 1/2-FH</i>	



**Company: Hartman Oil  
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**Lease: Heyen #1-3**

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Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 20  
Elevation: 1894 GL  
Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
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**19**  
2022

**DST #2      Formation: Lans C      Test Interval: 3520 -      Total Depth: 3550'**  
**3550'**  
Time On: 05:49 04/19      Time Off: 15:00 04/19  
Time On Bottom: 08:35 04/19      Time Off Bottom: 12:20 04/19

**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.2      **Viscosity:** 78      **Filtrate:** 10      **Chlorides:** 14000 ppm





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## Lease: Heyen #1-3

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Drilling Contractor: Murfin Drilling Company, Inc - Rig 20  
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Time On: 05:49 04/19      Time Off: 15:00 04/19  
Time On Bottom: 08:35 04/19      Time Off Bottom: 12:20 04/19

### Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

Time	Orifice	PSI	MCF/D
------	---------	-----	-------



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## Lease: Heyen #1-3

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State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 20  
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Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

**Operation:**  
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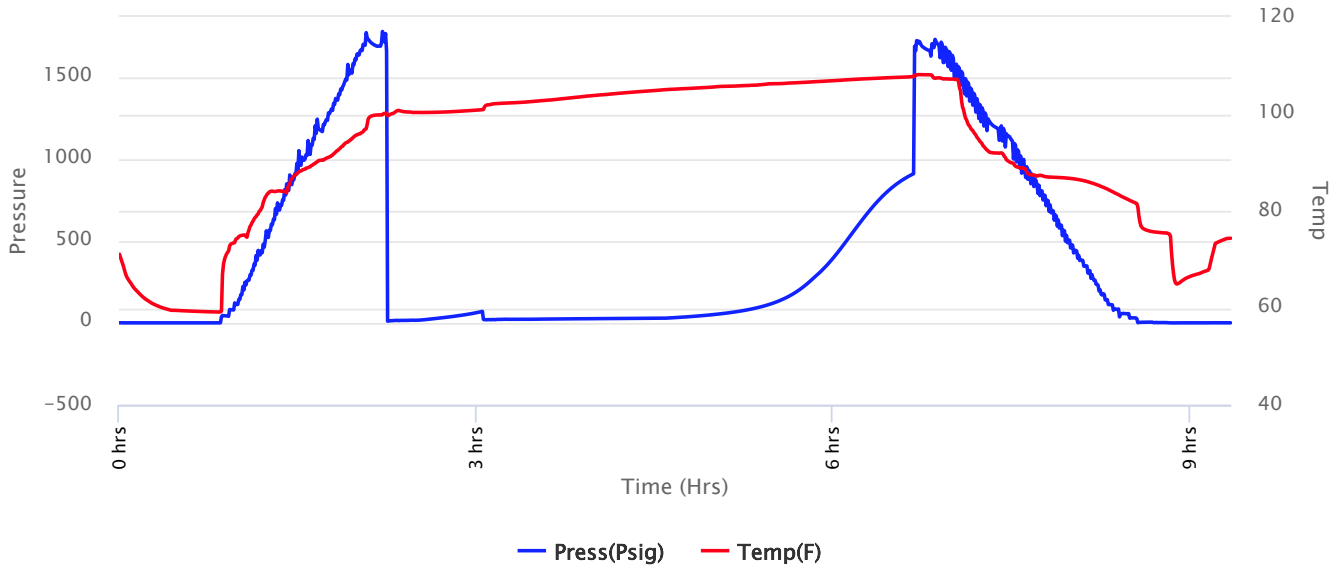
**DATE**  
April  
**20**  
2022

**DST #3**      **Formation: LKC H**      **Test Interval: 3636 - 3653'**      **Total Depth: 3653'**  
Time On: 02:52 04/20      Time Off: 11:59 04/20  
Time On Bottom: 05:05 04/20      Time Off Bottom: 09:20 04/20

Electronic Volume Estimate:  
46'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 15	Minutes: 30	Minutes: 90	Minutes: 120
Current Reading: 1.2" at 15 min	Current Reading: .1" at 30 min	Current Reading: .4" at 90 min	Current Reading: 0" at 120 min
Max Reading: 1.2"	Max Reading: .1"	Max Reading: .4"	Max Reading: 0"

Inside Recorder





# Company: Hartman Oil Company, Inc.

## Lease: Heyen #1-3

SEC: 2 TWN: 24S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 20  
Elevation: 1894 GL  
Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

**Operation:**  
Uploading recovery & pressures

**DATE**  
April  
**20**  
2022

**DST #3**      **Formation: LKC H**      **Test Interval: 3636 - 3653'**      **Total Depth: 3653'**  
Time On: 02:52 04/20      Time Off: 11:59 04/20  
Time On Bottom: 05:05 04/20      Time Off Bottom: 09:20 04/20

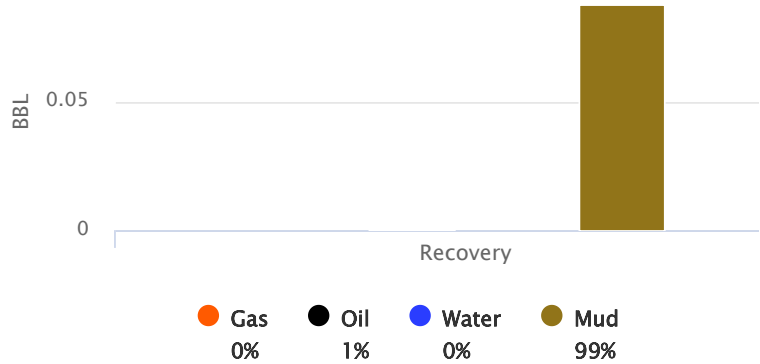
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
18	0.08856	SLOCM	0	1	0	99

Total Recovered: 18 ft  
Total Barrels Recovered: 0.08856

Reversed Out  
NO

### Recovery at a glance



Initial Hydrostatic Pressure	1688	PSI
Initial Flow	10 to 17	PSI
<b>Initial Closed in Pressure</b>	<b>70</b>	<b>PSI</b>
Final Flow Pressure	19 to 28	PSI
<b>Final Closed in Pressure</b>	<b>910</b>	<b>PSI</b>
Final Hydrostatic Pressure	1683	PSI
Temperature	108	°F
Pressure Change Initial Close / Final Close	0.0	%

GIP cubic foot volume: 0



**Company: Hartman Oil  
Company, Inc.**

**Lease: Heyen #1-3**

SEC: 2 TWN: 24S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 20  
Elevation: 1894 GL  
Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
April  
**20**  
2022

**DST #3      Formation: LKC H      Test Interval: 3636 -      Total Depth: 3653'**  
**3653'**  
Time On: 02:52 04/20      Time Off: 11:59 04/20  
Time On Bottom: 05:05 04/20      Time Off Bottom: 09:20 04/20

**BUCKET MEASUREMENT:**

1st Open: WSB. Built to 1 1/4 in 15 minutes  
1st Close: Very Weak Blow Back  
2nd Open: WSB. Built to 1/2 inch 90 minutes  
2nd Close: NOBB

**REMARKS:**

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud



**Company: Hartman Oil  
Company, Inc.**

**Lease: Heyen #1-3**

SEC: 2 TWN: 24S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Murfin Drilling  
 Company, Inc - Rig 20  
 Elevation: 1894 GL  
 Field Name: Gray North Ext  
 Pool: Infield  
 Job Number: 564  
 API #: 15-185-24107

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 April  
**20**  
 2022

**DST #3      Formation: LKC H      Test Interval: 3636 -      Total Depth: 3653'**  
**3653'**  
 Time On: 02:52 04/20      Time Off: 11:59 04/20  
 Time On Bottom: 05:05 04/20      Time Off Bottom: 09:20 04/20

**Down Hole Makeup**

<b>Heads Up:</b> 25.8 FT	<b>Packer 1:</b> 3631 FT
<b>Drill Pipe:</b> 3459.75 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3636 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3623 FT
<b>Collars:</b> 176.89 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3638 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 17	<b>Surface Choke:</b> 1"
<b><u>Anchor Makeup</u></b>	
<b>Packer Sub:</b> 1 FT	<b>Bottom Choke:</b> 5/8"
<b>Perforations: (top):</b> FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/2</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 16 FT <i>4 1/2-FH</i>	



**Company: Hartman Oil  
Company, Inc.**

**Lease: Heyen #1-3**

SEC: 2 TWN: 24S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 20  
Elevation: 1894 GL  
Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
April  
**20**  
2022

**DST #3      Formation: LKC H      Test Interval: 3636 -      Total Depth: 3653'**  
**3653'**  
Time On: 02:52 04/20      Time Off: 11:59 04/20  
Time On Bottom: 05:05 04/20      Time Off Bottom: 09:20 04/20

**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.2      **Viscosity:** 78      **Filtrate:** 10      **Chlorides:** 14000 ppm



**Company: Hartman Oil  
Company, Inc.**

**Lease: Heyen #1-3**

SEC: 2 TWN: 24S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 20  
Elevation: 1894 GL  
Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
April  
**20**  
2022

**DST #3      Formation: LKC H      Test Interval: 3636 -      Total Depth: 3653'**  
**3653'**  
Time On: 02:52 04/20      Time Off: 11:59 04/20  
Time On Bottom: 05:05 04/20      Time Off Bottom: 09:20 04/20

**Gas Volume Report**

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

Time	Orifice	PSI	MCF/D
------	---------	-----	-------



# Company: Hartman Oil Company, Inc.

## Lease: Heyen #1-3

SEC: 2 TWN: 24S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 20  
Elevation: 1894 GL  
Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

**Operation:**  
Uploading recovery & pressures

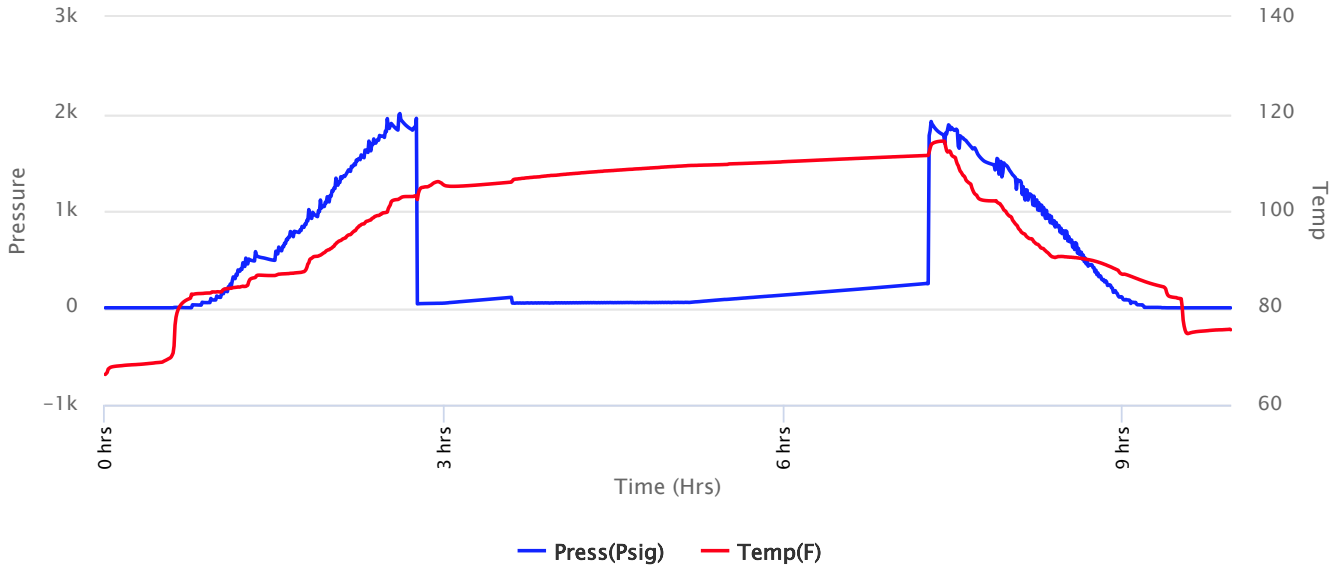
**DATE**  
April  
**21**  
2022

**DST #4**      **Formation: Viola**      **Test Interval: 3830 - 3850'**      **Total Depth: 3850'**  
Time On: 10:30 04/21      Time Off: 20:11 04/21  
Time On Bottom: 13:11 04/21      Time Off Bottom: 17:26 04/21

Electronic Volume Estimate:  
127'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 15	Minutes: 30	Minutes: 90	Minutes: 120
Current Reading: .5" at 15 min	Current Reading: 0" at 30 min	Current Reading: 4" at 90 min	Current Reading: 0" at 120 min
Max Reading: .5"	Max Reading: 0"	Max Reading: 4"	Max Reading: 0"

Inside Recorder







# Company: Hartman Oil Company, Inc.

## Lease: Heyen #1-3

SEC: 2 TWN: 24S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 20  
Elevation: 1894 GL  
Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

**Operation:**  
Uploading recovery & pressures

**DATE**  
April  
**21**  
2022

**DST #4**      **Formation: Viola**      **Test Interval: 3830 - 3850'**      **Total Depth: 3850'**  
Time On: 10:30 04/21      Time Off: 20:11 04/21  
Time On Bottom: 13:11 04/21      Time Off Bottom: 17:26 04/21

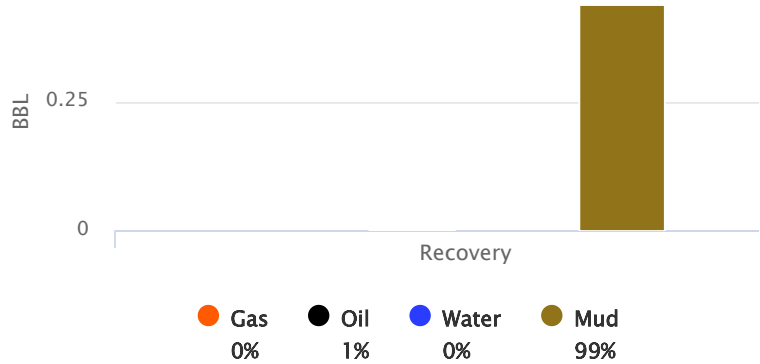
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
90	0.4428	SLOCM	0	1	0	99

Total Recovered: 90 ft  
Total Barrels Recovered: 0.4428

Reversed Out  
NO

### Recovery at a glance



Initial Hydrostatic Pressure	1832	PSI
Initial Flow	41 to 48	PSI
<b>Initial Closed in Pressure</b>	<b>109</b>	<b>PSI</b>
Final Flow Pressure	49 to 57	PSI
<b>Final Closed in Pressure</b>	<b>250</b>	<b>PSI</b>
Final Hydrostatic Pressure	1830	PSI
Temperature	112	°F
Pressure Change Initial Close / Final Close	0.0	%

GIP cubic foot volume: 0



**Company: Hartman Oil  
Company, Inc.**

**Lease: Heyen #1-3**

SEC: 2 TWN: 24S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 20  
Elevation: 1894 GL  
Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
April  
**21**  
2022

**DST #4**      **Formation: Viola**      **Test Interval: 3830 -**  
**3850'**      **Total Depth: 3850'**  
Time On: 10:30 04/21      Time Off: 20:11 04/21  
Time On Bottom: 13:11 04/21      Time Off Bottom: 17:26 04/21

**BUCKET MEASUREMENT:**

1st Open: WSB. Built to 1/2 inch in 15 minutes

1st Close: NOBB

2nd Open: WSB. Built to 4 inches in 90 minutes

2nd Close: NOBB

**REMARKS:**

Tool Sample: 0% Gas 10% Oil 0% Water 90% Mud



**Company: Hartman Oil  
Company, Inc.**

**Lease: Heyen #1-3**

SEC: 2 TWN: 24S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 20  
Elevation: 1894 GL  
Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
April  
**21**  
2022

**DST #4**      **Formation: Viola**      **Test Interval: 3830 - 3850'**      **Total Depth: 3850'**  
Time On: 10:30 04/21      Time Off: 20:11 04/21  
Time On Bottom: 13:11 04/21      Time Off Bottom: 17:26 04/21

**Down Hole Makeup**

<b>Heads Up:</b> 22.25 FT	<b>Packer 1:</b> 3825 FT
<b>Drill Pipe:</b> 3650.2 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3830 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3817 FT
<b>Collars:</b> 176.89 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3832 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 20	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	
<b>Packer Sub:</b> 1 FT	<b>Bottom Choke:</b> 5/8"
<b>Perforations: (top):</b> FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/2</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 19 FT <i>4 1/2-FH</i>	



**Company: Hartman Oil  
Company, Inc.**

**Lease: Heyen #1-3**

SEC: 2 TWN: 24S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 20  
Elevation: 1894 GL  
Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
April  
**21**  
2022

**DST #4      Formation: Viola      Test Interval: 3830 -      Total Depth: 3850'**  
**3850'**  
Time On: 10:30 04/21      Time Off: 20:11 04/21  
Time On Bottom: 13:11 04/21      Time Off Bottom: 17:26 04/21

**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.3      **Viscosity:** 60      **Filtrate:** 10.8      **Chlorides:** 10000 ppm



**Company: Hartman Oil  
Company, Inc.**

**Lease: Heyen #1-3**

SEC: 2 TWN: 24S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 20  
Elevation: 1894 GL  
Field Name: Gray North Ext  
Pool: Infield  
Job Number: 564  
API #: 15-185-24107

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
April  
**21**  
2022

**DST #4      Formation: Viola      Test Interval: 3830 -      Total Depth: 3850'**  
**3850'**  
Time On: 10:30 04/21      Time Off: 20:11 04/21  
Time On Bottom: 13:11 04/21      Time Off Bottom: 17:26 04/21

**Gas Volume Report**

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

Time	Orifice	PSI	MCF/D
------	---------	-----	-------



# HARTMAN OIL CO INC

PEOPLE WITH ENERGY

Scale 1:240 Imperial

Well Name: HEYEN #1-3  
Surface Location: NW SW SE NE Sec. 2 - 24S - 13W  
Bottom Location:  
API: 15-185-24107  
License Number: 30535  
Spud Date: 4/13/2022 Time: 9:30 PM  
Region: STAFFORD COUNTY  
Drilling Completed: 4/22/2022 Time: 6:19 PM  
Surface Coordinates: 2307' FNL & 1113' FEL  
Bottom Hole Coordinates:  
Ground Elevation: 1894.00ft  
K.B. Elevation: 1905.00ft  
Logged Interval: 2900.00ft To: 4100.00ft  
Total Depth: 4100.00ft  
Formation: LANSING - KANSAS CITY; VIOLA  
Drilling Fluid Type: FRESH WATER / CHEMICAL GEL

### OPERATOR

Company: HARTMAN OIL COMPANY, INC.  
Address: 10500 E BERKELEY SQ PKWY  
STE. 100  
WICHITA, KS 67206  
Contact Geologist: COREY STUCKY  
Contact Phone Nbr: (316) 636-2090  
Well Name: HEYEN #1-3  
Location: NW SW SE NE Sec. 2 - 24S - 13W  
API: 15-185-24107  
Pool:  
State: KANSAS Field: GRAY NORTH  
Country: USA

### SURFACE CO-ORDINATES

Well Type: Vertical  
Longitude: -98.713774  
Latitude: 37.992924  
N/S Co-ord: 2307' FNL  
E/W Co-ord: 1113' FEL

### LOGGED BY



Company: BIG CREEK CONSULTING, INC.  
Address: 3504 DUNCAN ST.  
ST. JOE, MO 64507

Phone Nbr: (785) 259-3737  
Logged By: GEOLOGIST

Name: JEFF LAWLER

**CONTRACTOR**

Contractor: MURFIN DRILLING COMPANY, INC.  
 Rig #: 20  
 Rig Type: MUD ROTARY  
 Spud Date: 4/13/2022  
 TD Date: 4/22/2022  
 Rig Release:

Time: 9:30 PM  
 Time: 6:19 PM  
 Time:

**ELEVATIONS**

K.B. Elevation: 1905.00ft  
 K.B. to Ground: 11.00ft  
 Ground Elevation: 1894.00ft

**NOTES**

AFTER LOG ANALYSIS DECISION WAS MAD TO PLUG & ABANDON THE HEYEN #1-3 DUE TO LACK OF ECONOMICAL RECOVERY ON ALL DRILL STEM TESTS.

RESPECTFULLY SUBMITTED,  
 JEFF LAWLER

**WELL COMPARISON SHEET**

FORMATION	HEYEN #1-3				P&A 7/89				H				H						
	HEYMEN #1-2				HEYMEN #1				MUSGROVE PETROLEUM CORP.				ALKAY OIL COMPANY						
	SW SW NE NE 2-24-13				SE NW NE 2-24-13				SW SW NE 2-24-13				NE SW SE 2-24-13						
	KB	1905	GL	1894	KB	1908	LOG	SMPL.	KB	1899	LOG	SMPL.	KB	1902	LOG	SMPL.	KB	1901	LOG
LOG TOPS	SAMPLE TOPS			LOGS				LOGS				COMP. CARD				COMP. CARD			
DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.
ANHYDRITE TOP		752	1153	750	1158		- 5	757	1142		+ 11	762	1140		+ 13	752	1149		+ 4
BASE		774	1131	769	1139		- 8	770	1129		+ 2	782	1120		+ 11				
TOPEKA	3025	-1120	3024	-1119	3024	-1116	- 4 - 3	3015	-1116	- 4 - 3	3030	-1128	+ 8 + 9	3026	-1125	+ 5 + 6			
HEEBNER SHALE	3343	-1438	3345	-1440	3343	-1435	- 3 - 5	3336	-1437	- 1 - 3	3349	-1447	+ 9 + 7	3346	-1445	+ 7 + 5			
TORONTO	3360	-1455	3362	-1457	3361	-1453	- 2 - 4	3356	-1457	+ 2 + 0	3370	-1468	+ 13 + 11						
DOUGLAS SHALE	3378	-1473	3380	-1475	3379	-1471	- 2 - 4	3372	-1473	+ 0 - 2	3387	-1485	+ 12 + 10						
BROWN LIME	3486	-1581	3487	-1582	3487	-1579	- 2 - 3	3479	-1580	- 1 - 2	3491	-1589	+ 8 + 7	3486	-1585	+ 4 + 3			
LKC	3506	-1601	3506	-1601	3506	-1598	- 3 - 3	3501	-1602	+ 1 + 1	3513	-1611	+ 10 + 10	3512	-1611	+ 10 + 10			
MUNCIE CREEK	3636	-1731	3640	-1735	3633	-1725	- 6 - 10												
BKC	3770	-1865	3776	-1871	3770	-1862	- 3 - 9	3758	-1859	- 6 - 12	3780	-1878	+ 13 + 7						
MISSISSIPPIAN	3804	-1899	3808	-1903	3804	-1896	- 3 - 7	3798	-1899	+ 0 - 4									
VIOLA	3838	-1933	3829	-1924	3826	-1918	- 15 - 6	3838	-1939	+ 6 + 15	3836	-1934	+ 1 + 10	3827	-1926	- 7 + 2			
SIMPSON SHALE	3972	-2067	3972	-2067	3967	-2059	- 8 - 8	3954	-2055	- 12 - 12	3970	-2068	+ 1 + 1	3954	-2053	- 14 - 14			
SIMPSON SAND	3992	-2087	3996	-2091	3989	-2081	- 6 - 10	3978	-2079	- 8 - 12	3990	-2088	+ 1 - 3						
ARBuckle	4027	-2122	4028	-2123	4024	-2116	- 6 - 7	4006	-2107	- 15 - 16	4023	-2121	- 1 - 2	4020	-2119	- 3 - 4			
TOTAL DEPTH	4101	-2196	4100	-2195	4090	-2182	- 14 - 13	4050	-2151	- 45 - 44	4058	-2156	- 40 - 39	4046	-2145	- 51 - 50			

**DST #1 LKC C 3517' - 3550'**



**Company: Hartman Oil Company, Inc.**  
**Lease: Heyen #1-3**

SEC: 2 TWN: 24S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 20  
 Elevation: 1894 GL  
 Field Name: Gray North Ext  
 Pool: Infield  
 Job Number: 564  
 API #: 15-185-24107

**Operation:**

Uploading recovery & pressures

**DATE**

April  
**18**  
 2022

**DST #1 Formation: Lans C Test Interval: 3517 - 3550' Total Depth: 3550'**

Time On: 15:39 04/18 Time Off: 00:21 04/19  
 Time On Bottom: 18:37 04/18 Time Off Bottom: 21:37 04/18

**Recovered**

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
1	0.00492	M	0	0	0	100

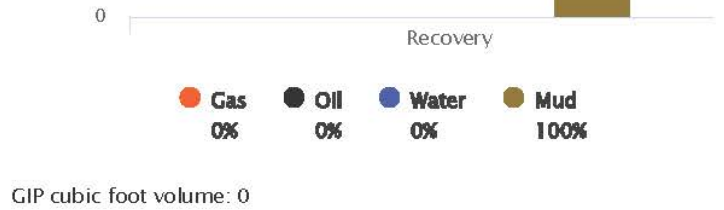
Total Recovered: 1 ft  
 Total Barrels Recovered: 0.00492

Reversed Out  
 NO

**Recovery at a glance**

Initial Hydrostatic Pressure 1669 PSI  
 Initial Flow 0 PSI  
 BBL 0.0025

<b>Initial Closed in Pressure</b>	0	<b>PSI</b>
Final Flow Pressure	0	PSI
<b>Final Closed in Pressure</b>	0	<b>PSI</b>
Final Hydrostatic Pressure	1688	PSI
Temperature	106	°F
Pressure Change Initial	0.0	%
Close / Final Close		



**DST #1 LKC C 3517' - 3550'**



**Company: Hartman Oil Company, Inc.**  
**Lease: Heyen #1-3**

SEC: 2 TWN: 24S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 20  
 Elevation: 1894 GL  
 Field Name: Gray North Ext  
 Pool: Infield  
 Job Number: 564  
 API #: 15-185-24107

**Operation:**

Uploading recovery & pressures

**DATE**

April  
**18**  
 2022

**DST #1 Formation: Lans C Test Interval: 3517 - 3550' Total Depth: 3550'**  
 Time On: 15:39 04/18 Time Off: 00:21 04/19  
 Time On Bottom: 18:37 04/18 Time Off Bottom: 21:37 04/18

Electronic Volume Estimate:  
 5'

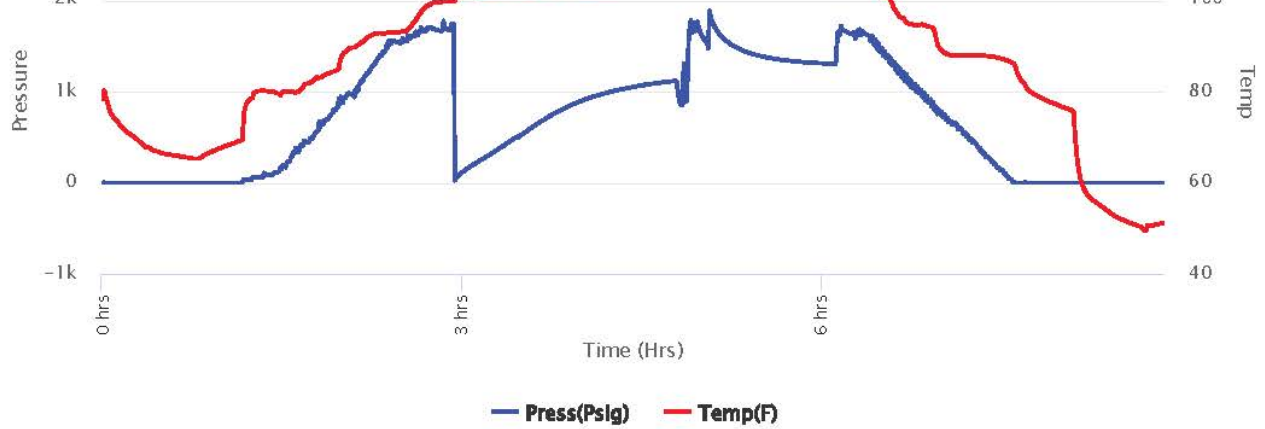
<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 30	Minutes: 60	Minutes: 30	Minutes: 60
Current Reading:	Current Reading:	Current Reading:	Current Reading:
.1" at 30 min	0" at 60 min	0" at 30 min	0" at 60 min
Max Reading: .2"	Max Reading: 0"	Max Reading: 0"	Max Reading: 0"

Inside Recorder

3k 120

2k 100





**DST #2 LKC C 3520' - 3550'**



**Company: Hartman Oil Company, Inc.**  
**Lease: Heyen #1-3**

SEC: 2 TWN: 24S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 20  
 Elevation: 1894 GL  
 Field Name: Gray North Ext  
 Pool: Infield  
 Job Number: 564  
 API #: 15-185-24107

**Operation:**

Uploading recovery & pressures

**DATE**

April  
**19**  
 2022

**DST #2**      **Formation: Lans C**      **Test Interval: 3520 - 3550'**      **Total Depth: 3550'**  
 Time On: 05:49 04/19      Time Off: 15:00 04/19  
 Time On Bottom: 08:35 04/19      Time Off Bottom: 12:20 04/19

**Recovered**

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
65	0.3198	G	100	0	0	0
53	0.26076	OSM	0	0	0	100

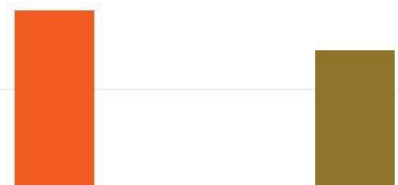
Total Recovered: 118 ft  
 Total Barrels Recovered: 0.58056

**Reversed Out**  
 NO

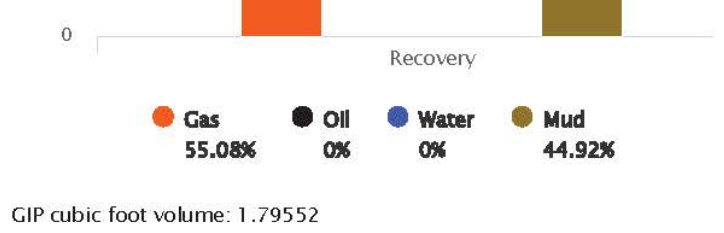
**Recovery at a glance**

Initial Hydrostatic Pressure      1611      PSI  
 Initial Flow      13 to 19      PSI  
 Initial Closed in Pressure      125      PSI

BBL 0.2



Final Flow Pressure	21 to 28	PSI
<b>Final Closed in Pressure</b>	<b>134</b>	<b>PSI</b>
Final Hydrostatic Pressure	1611	PSI
Temperature	103	°F
Pressure Change Initial	0.0	%
Close / Final Close		



**DST #2 LKC C 3520' - 3550'**



**Company: Hartman Oil Company, Inc.**  
**Lease: Heyen #1-3**

SEC: 2 TWN: 24S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 20  
 Elevation: 1894 GL  
 Field Name: Gray North Ext  
 Pool: Infield  
 Job Number: 564  
 API #: 15-185-24107

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 April  
**19**  
 2022

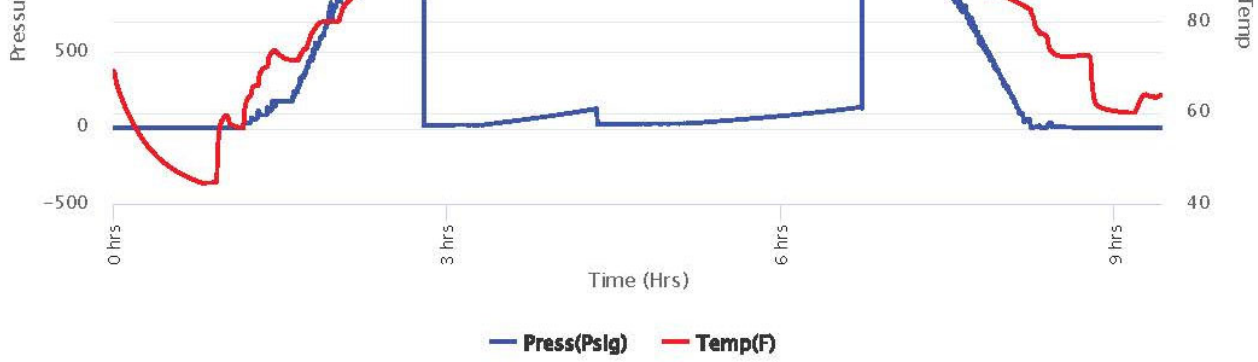
**DST #2 Formation: Lans C Test Interval: 3520 - 3550' Total Depth: 3550'**  
 Time On: 05:49 04/19 Time Off: 15:00 04/19  
 Time On Bottom: 08:35 04/19 Time Off Bottom: 12:20 04/19

Electronic Volume Estimate:  
 101'

1st Open	1st Close	2nd Open	2nd Close
Minutes: 30	Minutes: 60	Minutes: 45	Minutes: 90
Current Reading: 1.4" at 30 min	Current Reading: .1" at 60 min	Current Reading: 2.3" at 45 min	Current Reading: .1" at 90 min
Max Reading: 1.4"	Max Reading: .1"	Max Reading: 2.3"	Max Reading: .1"

Inside Recorder














**ROCK TYPES**



-  Cht
-  shale, gry
-  Shblk
-  shale, grn
-  Carbon Sh
-  shale, red




**OTHER SYMBOLS**

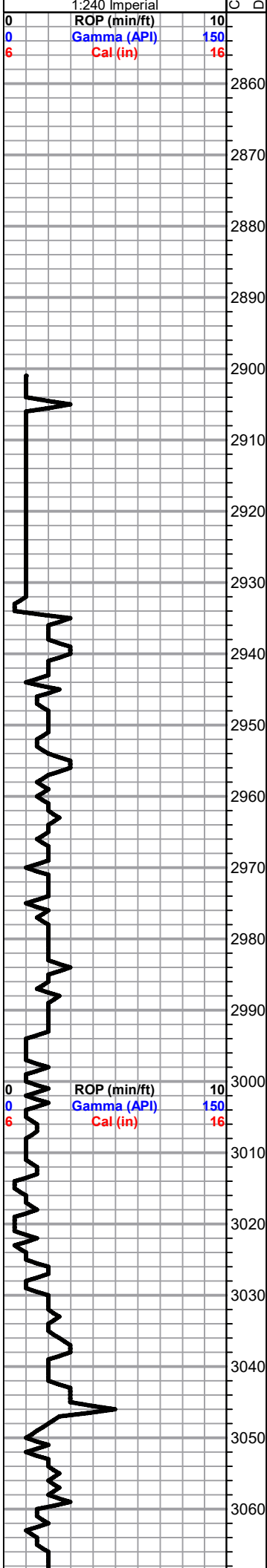
- MISC**

  -  Daily Report
  -  Digital Photo
  -  Document
  -  Folder
  -  Link
  -  Vertical Log File
  -  Horizontal Log File
  -  Core Log File
  -  Drill Cuttings Rpt

**DST**

  -  DST Int
  -  DST alt

<p>Curve Track #1</p> <p>ROP (min/ft) </p> <p>Gamma (API) </p> <p>Cal (in) </p>		<p>Depth   Intervals</p>	<p>DST</p>	<p>Lithology</p>	<p>Oil Show</p>	<p>Geological Descriptions</p>	<p>Curve Track #3</p>
--	--	--------------------------	------------	------------------	-----------------	--------------------------------	-----------------------



**1' DRILL TIME THROUGH ANHYDRITE CROM 730' - 800'**  
**1' DRILL TIME FROM 2900' - RTD**  
**10' WET/DRY SAMPLES FROM 2950' - RTD**

**GEOLOGICAL SUPERVISION BY JEFF LAWLER FROM 2900' - RTD**

**8 5/8" SURFACE PIPE SET @ 326'**

**ANHYDRITE TOP 752' (+1153) E-LOG 754' (+1151)**  
**ANHYDRITE BASE 774' (+1131) E-LOG 768' (+1137)**

Sh- Lt & Drk Gray Maroon, calcareous, waxy, earthy

Lm- Tan, FXLN, hvy fsl, dense, well cemented, tight w/ micro XLN porosity

Lm- Cream, VFXLN, fsl, dense, well cemented, sl dolomitic Ls, microXLN porosity, barren interbedded sl argillaceous shales

Lm- Cream Tan, sl fsl, mix of massive dolomitic Ls w/ dense consistent micro XLN porosity & tight cherty Ls w/ sctrd micro XLN porosity, all barren

Sh/Ss- Lt & Drk Gray Maroon, mix of sl sandy, calcareous, & argillaceous Ss- Vf Grn, well cemented, sub-rounded, shaledy, consolidated & mod. sorted, barren

Lm- Cream, FXLN, massive, fsl w/ fusulinids, dense, mostly tight w/ sctrd XLN porosity & interbedded shales A/A

Sh- Gray Green, calcareous, waxy

Sh/Ss- Sh A/A, Ss- Lt Gray, Vf Grn, well cemented, angular, micaceous, micro chlorite, consolidated & well sorted, barre

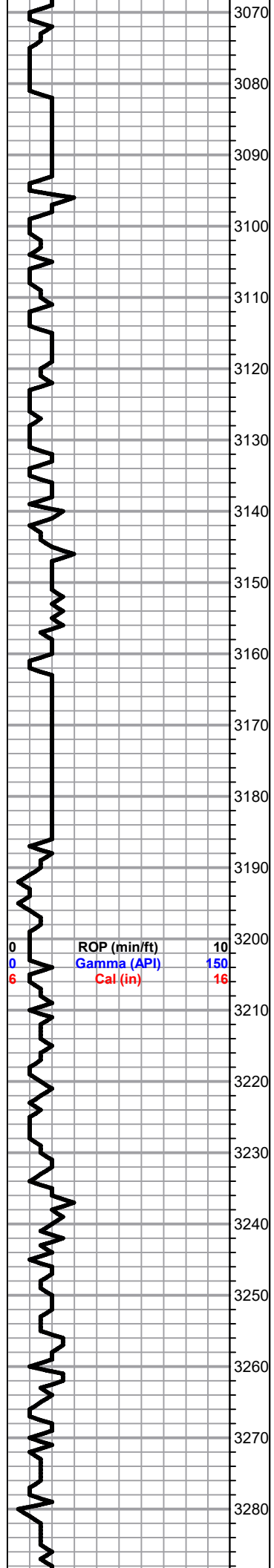
**TOPEKA 3024' (-1119) E-LOG 3025' (-1120)** Lm- Cream, FLXN, sl fsl, dense, well cemented, sl dolomitic w/ dns microXLN porosity, hvy mottled

Sh- Black Gray, waxy, sandy, calcareous & micaceous

Lm- Gray Buff Cream, VF-FXLN, mix of well cemented, sl fsl, tight w/ poor vis porosity, & fsl, well cemented, dns w/ sctrd XLN porosity, barren

Lm- Cream Buff, VF-FXLN, dns mix of tight sl dolomitic Ls w/ consistent microXLN porosity, sl cherty Ls w/ poor vis. porosity, some soft white chalk

Lm- Cream, fsl, loosely cemented, sandy, chalky, dns XLN porosity, mottled



0 ROP (min/ft) 10  
 0 Gamma (API) 150  
 6 Cal (in) 16

Lm/Chert- Buff Cream, VF-FXLN, dns, well cemented, sl fsl, tight w/ dns XLN porosity throughout & tight sl dolomitic chert/cherty Ls, massive, no vis. porosity

Lm- Cream, FXLN, massive, well to loosely cemented & sl chalky in part, dns XLN porosity, barren

Chert- Lt Gray, CryptoXLN, sl fsl vitreous fresh bedded w/o vis. por.

Lm- Cream, FXLN, massive fsl dolomitic Ls w/ consistent XLN porosity throughout, much soft white chalk & Buff FXLN, hvy fsl, massive, dense XLN porosity, some secondary reXLN veins

Lm/Chert- Cream Gray, VF-FXLN, trashy clastic high-energy mix, well cemented & massive w/ dense XLN porosity, some fresh bedded vitreous chert, much soft white chalk

Sh- Black Gray, fissile & carbonaceous, argillaceous & calcareous

Lm- Cream Buff, VF-FXLN, dns & well cemented, tight w/ poor vis. porosity, much soft white chalk

A/A w/ influx of loosely cemented siltstone

**\*\*GEOLOGRAPH STUCK NO DRILL TIME\*\***

Lm- Cream Buff, VF-FXLN, dns & well cemented, tight w/ sctrd XLN porosity, some soft white chalk

Lm- Cream, FXLN, massive, fsl, dns XLN porosity throughout, dns secondary reXLN porosity, well dev. barren, some soft white chalk

Lm- A/A w/ lt gray, FXLN, sl fsl, well dev. XLN porosity throughout, influx of chalk, barren

Lm- Cream Off White, VF-FXLN, fsl, well cemented, sctrd XLN porosity, much soft white chalk, barren

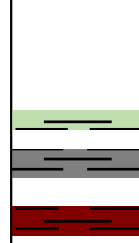
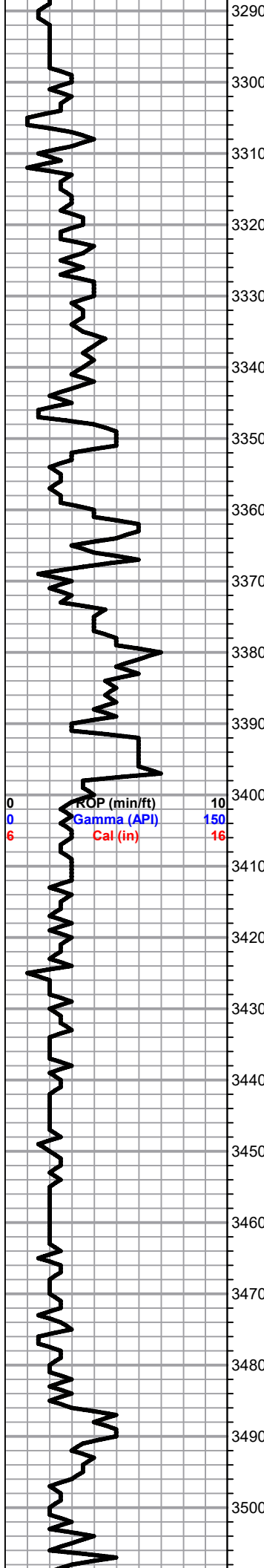
Sh- Black Gray, fissile & carbonaceous, waxy, argillaceous

Sh- Gray Maroon Green, argillaceous, earthy, calcareous

Lm- Cream Off White, FXLN, fsl, massive, dns XLN & secondary reXLN porosity, much soft white chalk, hvy mottled

Lm/Chert- Cream Buff, VFXLN CryptoXLN, porcelain like cherty Ls & vitreous fresh bedded chert w/o vis. porosity

Lm- Cream, F-MEDXLN, massive, sl fsl, vry dns XLN & secondary reXLN porosity, much soft white chalk, barren



Lm- Cream, FXLN, massive, fsl w/ hvy XLN & sctrd fn ppt XLN porosity, abundant chalk

Sh/SS- Black Gray Maroon Green, fissile, calcareous, earthy, shaley Ss

Lm/Chert- Cream Milky Gray & White, VFXLN, tight cherty Ls w/ min. vis. porosity, sl fsl fresh bedded vitreous chert

Lm- Cream Off White, FXLN, fsl, well dev. w/ dns fractured & secondary reXLN porosity, barren

**HEEBNER 3345' (-1440) E-LOG 3343' (-1438)** Sh- Black Gray Maroon, fissile & carbonaceous, calcareous, earthy

Sh- Gray, calcareous & soft

**TORONTO 3362' (-1457) E-LOG 3360' (-1455)** Lm-Cream Off White, FXLN, sl fsl, well cemented, sctrd XLN porosity, vry clean & barren

A/A w/ cherty Ls/dolomitic chert/fresh bedded vitreous chert

Lm- Cream, FXLN, dns dolomitic Ls w/ consistent microXLN porosity

**\*\*BIT TRIP @ 3396' SURVEY 1/2 deg. STRAP-1.14\*\*\***

Sh- Gray Green Maroon, caclareous, sl sandy, earthy

A/A w/ black waxy

Sh/Ss- influx of calcareous & micaceous gray sandy shale, few pcs of fn grn, well cemented, consolidated & well sorted angular Ss, barren

Sh- Gray Black, calcarous, micaceous, waxy

Sh- Gray Maroon, calcareous, some sandy, some argillaceous wash

A/A w/ influx of argillaceous wash

A/A

**BROWN LIME 3487' (-1582) E-LOG 3486' (-1581)** Lm- Brown Cream, FXLN, fsl, sctrd to dense XLN & secondary reXLN, some w/ reXLN veins, barren

Sh- Gray Green, waxy & calcareous

**LKC 3506' (-1601) E-LOG 3506' (-1601)** Lm- Cream Off White, FXLN, sl fsl, sctrd to dense XLN porositv. few pcs of dolomitic Ls w/ consistent microXLN porositv.

DST #1 LKC C  
3517' - 3590'  
30-60-30-60

TOOL PLLUGGED

1' MUD

PRESSURES N/A

throughout, barren

DST #2 LKC C  
3520' - 3550'  
30-60-45-90

65' GIP  
50' OSPM (100%)

IFP: 13-19#  
FFP: 21-28#  
SIP: 125-134#  
BHT: 103 deg.

3540.jpg

3557.jpg

DST #3 LKC H  
3636' - 3653'  
15-30-60-90

CHARTS BELOW

18' SLOCM  
(1%O, 99%M)

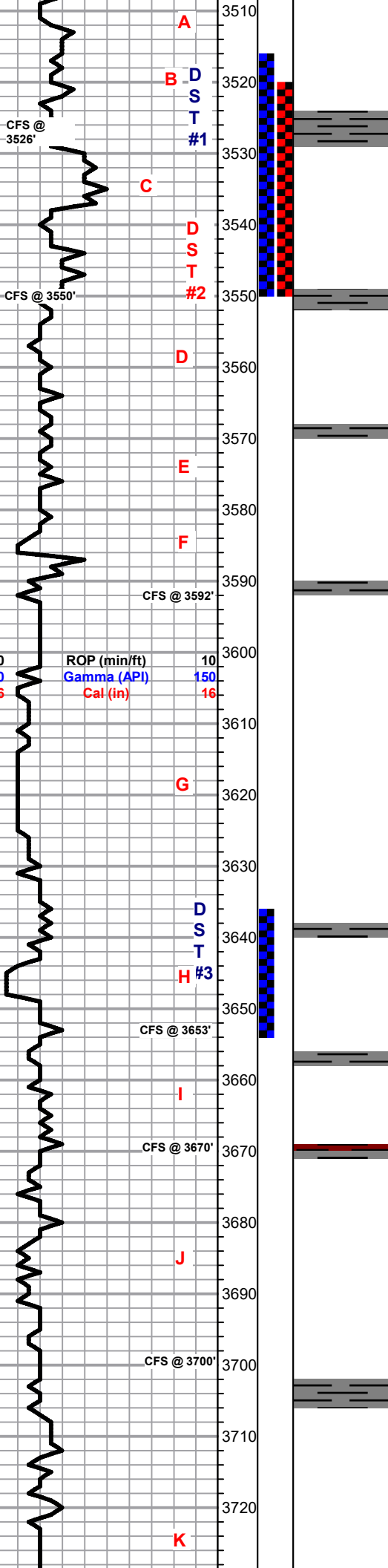
IFP: 10-17#  
FFP: 19-28#  
SIP: 70-910#  
BHT: 108 deg.

DST 3.jpg

DST 3\_C...

3665.jpg

3676'.jpg



Lm- Cream Off White, F-MED XLN, fsl, mod. well dev. w/ dense XLN & sctrd fn ppt porosity, TR LT STN, NSFO, TR ODR UPON CRUSH, WK HALO FLOR.

Sh- Black Gray Maroon Green, waxy & dense, calcareous w/ pebble inclusions

Lm- Cream, FXLN, fsl & oolitic mix of well cemented dense XLN & sctrd secondary reXLN, dns clear replacement cementation, 2 PCS W/ LT GSY SFO, WK ODR & loosely cemented & chalky, poor vis. porosity, barren

Lm- Tan, VFXLN, tight cherty Ls w/ min. vis. porosity

Lm- Buff, FXLN, fsl, sctrd to dns XLN porosity, some sctrd reXLN porosity, some soft white chalk

Lm- Off White, VF-FXLN, mix of dns chakly dolomitic Ls w/ dns micro XLN porosity, tight & some chalky in part & several pcs of fsl & oolitic, massive, dns XLN & vry fn ppt porosity, all clean & barren, few pcs of bone white vitreous fresh bedded chert

CFS @ 3592'

Lm- Off White Buff, VF-FXLN, dolomitic/cherty Ls, sctrd XLN & rare vry fn ppt porosity, some soft white chalk, all vry clean & barren, few pcs of bone white vitreous cryptoXLN fresh bedded chert

ROP (min/ft) 10  
Gamma (API) 150  
Cal (in) 16

Lm- Buff Gray, VFXLN, tight cherty Ls w/ min. vis. porosity, 2 pcs w/ dns fracturing, TR DRK STN, NSFO, NODR

Lm- Cream, FXLN, well cemented sl dolomitic Ls w/ consistent XLN & vry fn ppt porosity throughout, some soft white chalk & milky white/gray sl fsl vitreous chert

Lm- Cream Buff, VFXLN, dns & tight w/ micro XLN porosity, some soft white chalk, barren, several pcs of sl fsl fresh bedded vitreous chert

DST #3  
H #3

Lm- Cream, FXLN, oomoldic, well cemented, vuggy porosity w/ poor connectivity, 2 PCS W/ DENSE SECONDARY REXLN, SCTRD DRK STN, TR FO, NO ODR

CFS @ 3653'

Lm- Off White, VF-FXLN, oolitic mix of dnsly packed, cherty Ls w/ poor vis. porosity & chalky clastic mix, loosely cemented, all barren

CFS @ 3670'

Lm- White, FXLN, oolitic, most loosely cemented & sl chalky, SCTRD BLK DO STN, 1 PC W/ GILSONITE STN, WK ODR, WK YLW HALO FLOR.

Lm- Cream, VF-FXLN, oolitic mix, loosely cemented & chalky w/ poor vis. porosity & dns, well cemented w/ sctrd XLN & vry fn ppt porosity, 2-3 PCS SCTRD BLK STN, GILSONITE, NSFO, NODR

Lm- Cream, FXLN, oomoldic, dense vuggy & mirco XLN porosity, FEW PCS W/ TR FO UPON BREAK, NO ODR, NO EXTERIOR STN

CFS @ 3700'

Chert- Tan Milky White, CryptoXLN vitreous fresh bedded chert

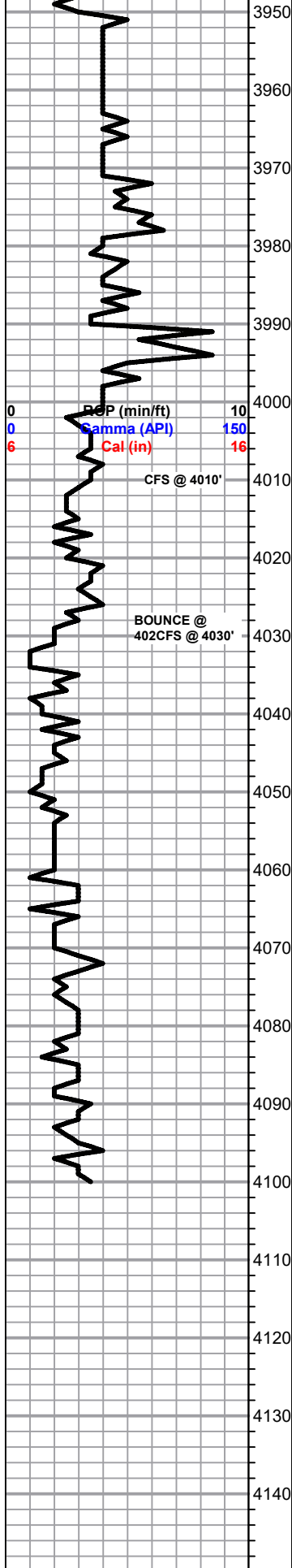
Sh- Gray, blocky & waxy

Lm- Cream Off White, VF-FXLN, dns & well cemented, tight w/ sctrd XLN porosity at best, some sl cherty Ls, vry clean & barren

Lm- Tan Buff, Crypto-VFXLN, cherty Ls w/o min. vis. to no vis porosity







A/A w/ influx of crptoXLN cream & buff vitreous chert

Dolo/Chert- Off White, FXLN, gritty dolomitic chert/cherty dolo, dns micro XLN porosity, barren

Chert-, Translucent White, FXLN, fractured, dns XLN porosity

**SIMPSON SHALE 3972' (-2067) E-LOG 3972' (-2067)** Sh- Mint Green, waxy, some argillaceous wash, few pcs of chert w/ sub-rounded qtz. inclusions, dns XLN porosity, barren

Sh- A/A w/ sl influx of argillaceous wash & sandy Sh Ss- Frosted, Fn Grn, sub-rounded, friable, barren, FEW PCS W/ SAT BLK DO STN, NSFO, NODR

**D** **SIMPSON SAND 3996' (-2091) E-LOG 3992' (-2087)** Ss- Frosted, F-Med Grn, sl unconsolidated, mod. sorting to poorly sorted, sub-rounded to angular, friable to well cemented w/ Ca, barren

Ss- A/A w/ influx of gray Fn Grn, lightly cemented, consolidated & mod sorted, sub-angular, barren

Sh- Green Gray, dense & waxy, some argillaceous clumps

**ARBUCKLE 4028' (-2123) E-LOG 4027' (-2122)** Dol- Cream, MEDXLN, massive, semi-sucrosic, dns micro XLN throughout w/ scrd vuggy porosity, well cemented, barren

Dol- Cream, F-MEDXLN, rhombic, dns XLN porosity, barren

Dol- Cream Off White, F-MedXLN, mix of tight w/ dns microXLN porosity throughout & massive, dns XLN & scrd fn ppt porosity throughout, barren

Dol- Cream Off White, VF-FXLN, mix of VFXLN, sl chert, poor vis. porosity & FXLN, sucrosic w/ consistent XLN porosity throughout, loosely cemented, all barren

Dol- Cream Lt Pink tint, F-MEDXLN, sucrosic, rhombic, dns XLN & fn ppt porosity throughout, barren

Dol- A/A w/ few pcs of crsXLN, massive & sucrosic w/ consistent ppt porosity throughout, barren

Dol- Cream, FXLN, dns w/ tight XLN porosity, barren

**RTD 4100' (-2195)**  
**LTD 4101 (-2196) @ 18:19 4/22/2022**

SHORT TRIP  
SURVEY  
TOH FOR LOG







# DST 3.jpg



**Company: Hartman Oil Company, Inc.**  
**Lease: Heyen #1-3**

SEC: 2 TWN: 24S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 20  
 Elevation: 1894 GL  
 Field Name: Gray North Ext  
 Pool: Infield  
 Job Number: 564  
 API #: 15-185-24107

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 April  
**20**  
 2022

**DST #3**    **Formation: LKC H**    **Test Interval: 3636 - 3653'**    **Total Depth: 3653'**  
 Time On: 02:52 04/20    Time Off: 11:59 04/20  
 Time On Bottom: 05:05 04/20    Time Off Bottom: 09:20 04/20

**Recovered**

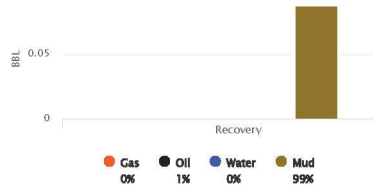
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
18	0.08856	SLOCM	0	1	0	99

Total Recovered: 18 ft  
 Total Barrels Recovered: 0.08856

**Reversed Out**  
 NO

Initial Hydrostatic Pressure	1688	PSI
Initial Flow	10 to 17	PSI
Initial Closed in Pressure	70	PSI
Final Flow Pressure	19 to 28	PSI
Final Closed in Pressure	910	PSI
Final Hydrostatic Pressure	1683	PSI
Temperature	108	*F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**



GIP cubic foot volume: 0

# DST 3\_CHRTS.jpg



**Company: Hartman Oil Company, Inc.**  
**Lease: Heyen #1-3**

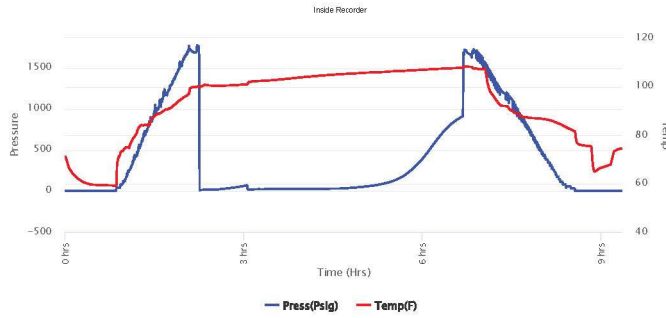
SEC: 2 TWN: 24S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 20  
 Elevation: 1894 GL  
 Field Name: Gray North Ext  
 Pool: Infield  
 Job Number: 564  
 API #: 15-185-24107

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 April  
**20**  
 2022

**DST #3**    **Formation: LKC H**    **Test Interval: 3636 - 3653'**    **Total Depth: 3653'**  
 Time On: 02:52 04/20    Time Off: 11:59 04/20  
 Time On Bottom: 05:05 04/20    Time Off Bottom: 09:20 04/20

Electronic Volume Estimate:	1st Open	1st Close	2nd Open	2nd Close
46'	Minutes: 15	Minutes: 30	Minutes: 90	Minutes: 120
	Current Reading: 1.2" at 15 min	Current Reading: .1" at 30 min	Current Reading: .4" at 90 min	Current Reading: 0" at 120 min
	Max Reading: 1.2"	Max Reading: .1"	Max Reading: .4"	Max Reading: 0"



















# DST 4.jpg



**Company: Hartman Oil Company, Inc.**  
**Lease: Heyen #1-3**

SEC: 2 TWN: 24S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 20  
 Elevation: 1894 GL  
 Field Name: Gray North Ext  
 Pool: Infield  
 Job Number: 564  
 API #: 15-185-24107

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 April  
**21**  
 2022

**DST #4**    **Formation: Viola**    **Test Interval: 3830 - 3850'**    **Total Depth: 3850'**  
 Time On: 10:30 04/21    Time Off: 20:11 04/21  
 Time On Bottom: 13:11 04/21    Time Off Bottom: 17:26 04/21

**Recovered**

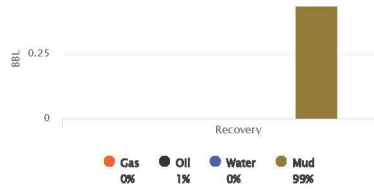
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
90	0.4428	SLOCM	0	1	0	99

Total Recovered: 90 ft  
 Total Barrels Recovered: 0.4428

**Reversed Out**  
 NO

Initial Hydrostatic Pressure	1832	PSI
Initial Flow	41 to 48	PSI
Initial Closed in Pressure	109	PSI
Final Flow Pressure	49 to 57	PSI
Final Closed in Pressure	250	PSI
Final Hydrostatic Pressure	1830	PSI
Temperature	112	*F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**



GIP cubic foot volume: 0

# DST 4\_CHRTS.jpg



**Company: Hartman Oil Company, Inc.**  
**Lease: Heyen #1-3**

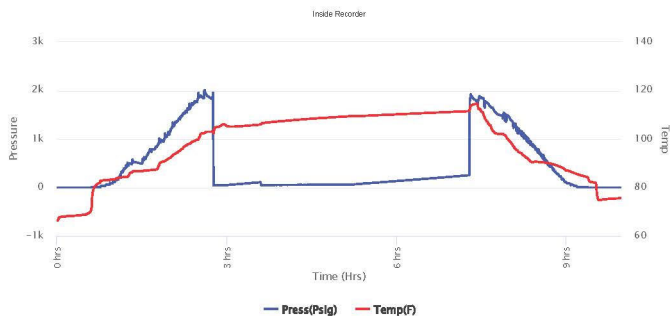
SEC: 2 TWN: 24S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 20  
 Elevation: 1894 GL  
 Field Name: Gray North Ext  
 Pool: Infield  
 Job Number: 564  
 API #: 15-185-24107

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 April  
**21**  
 2022

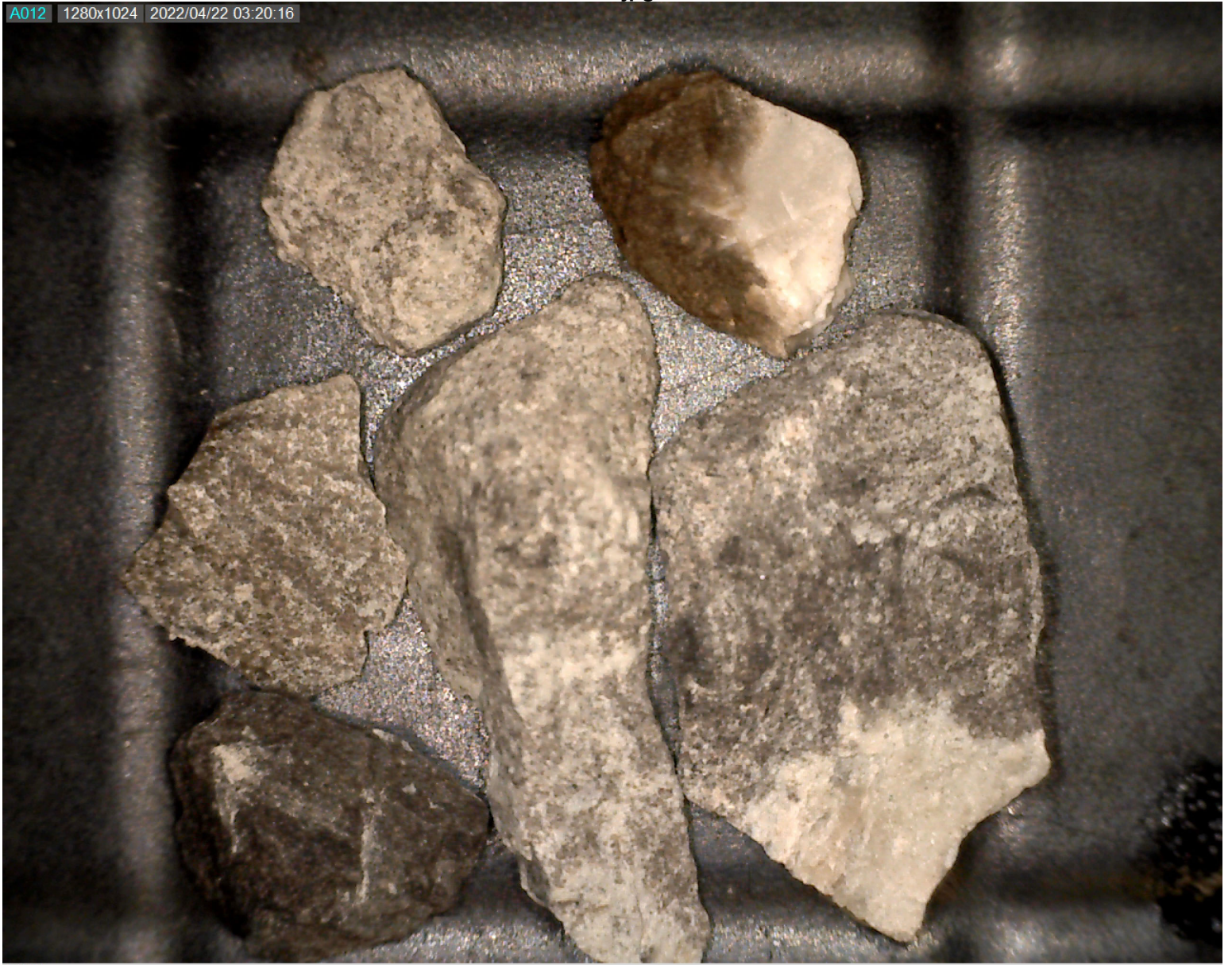
**DST #4**    **Formation: Viola**    **Test Interval: 3830 - 3850'**    **Total Depth: 3850'**  
 Time On: 10:30 04/21    Time Off: 20:11 04/21  
 Time On Bottom: 13:11 04/21    Time Off Bottom: 17:26 04/21

Electronic Volume Estimate:	1st Open	1st Close	2nd Open	2nd Close
127'	Minutes: 15	Minutes: 30	Minutes: 90	Minutes: 120
	Current Reading: .5" at 15 min	Current Reading: 0" at 30 min	Current Reading: 4" at 90 min	Current Reading: 0" at 120 min
	Max Reading: .5"	Max Reading: 0"	Max Reading: 4"	Max Reading: 0"









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



Date	Invoice #
4/21/2022	6335

Bill To	
Hartman Oil Co., Inc. 10500 E. Berkeley Sq. Parkway Ste.100 Wichita, KS 67206	
Customer ID#	1320

Job Date	4/14/2022
Lease Information	
Heyen #1-3	
County	Stafford
Foreman	KM

Item	Description	Qty	Terms	Net 15
			Rate	Amount
C101	Cement Pump-Surface	1	950.00	950.00
C107	Pump Truck Mileage (one way)	140	4.50	630.00
C200	Class A Cement-94# sack	395	18.55	7,327.25T
C205	Calcium Chloride	1,115	0.75	836.25T
C206	Gel Bentonite	740	0.30	222.00T
C209	Flo-Seal	70	2.80	196.00T
C108B	Ton Mileage-per mile (one way)	2,599.8	1.50	3,899.70
C413	8 5/8" Wooden Plug	1	98.00	98.00T
C724	8 5/8" Fiber Baffle Plate	1	157.00	157.00T
C606	8 5/8" Cement Basket	1	380.00	380.00T
D101	Discount on Services		-273.99	-273.99
D102	Discount on Materials		-463.48	-463.48T

*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

<b>Subtotal</b>	\$13,958.73
<b>Sales Tax (7.5%)</b>	\$656.48
<b>Total</b>	\$14,615.21
Payments/Credits	\$0.00
<b>Balance Due</b>	\$14,615.21

810 E 7<sup>TH</sup>  
 PO Box 92  
 EUREKA, KS 67045  
 (620) 583-5561



MURFIN  
 DR19  
 Rig # 20

**Cement or Acid Field Report**  
 Ticket No. **6335**  
 Foreman KEVIN McCoy  
 Camp EUREKA

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State	
4-14-22	1320	Heyen #1-3	2	24S	13W	STAFFORD	Ks	
Customer <u>HARTMAN OIL Co., INC.</u>			Safety Meeting <u>KM AM BW</u>		Unit #	Driver	Unit #	Driver
Mailing Address <u>10500 E. BERKELEY Sq. PARKWAY Ste 100</u>					<u>104</u>	<u>ALAN M.</u>		
City <u>WICHITA</u>			State <u>Ks</u>		Zip Code <u>67206</u>	<u>113</u>	<u>BROKER W.</u>	
					<u>112</u>	<u>BROKER W.</u>		

Job Type SURFACE Hole Depth 330' K.B. Slurry Vol. 95 BBL Tubing \_\_\_\_\_  
 Casing Depth 321' K.B. Hole Size 12 1/4" Slurry Wt. 15# Drill Pipe \_\_\_\_\_  
 Casing Size & Wt. 8 5/8" 23 # Cement Left in Casing 38.94' SJ Water Gal/SK \_\_\_\_\_ Other \_\_\_\_\_  
 Displacement 18 BBL Displacement PSI 200 Bump Plug to 400 PSI BPM \_\_\_\_\_

Remarks: Safety Meeting: Rig up to 8 5/8" casing. BREAK circulation w/ 15 BBL Fresh water. Mixed 275 SKS CLASS "A" Cement w/ 3% CaCl2, 2% Gel, 1/4" FIOSEAL /SK @ 15#/GAL = 66 BBL SLURRY. Shut down, Release Plug, Displace Plug to seat w/ 18 BBL Fresh water. Bump Plug to 400 PSI. Shut casing in. No Cement to SURFACE. CALL FOR More Cement & 1" Tubing.

RAN 1" HYDRIL Tubing, TAG FIRM Cement @ 60' K.B. Mixed 120 SKS CLASS "A" Cement w/ 3% CaCl2, 2% Gel @ 15#/GAL = 29 BBL SLURRY. Good Cement to SURFACE. PULL 1". Job Complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 101	1	Pump Charge	950.00	950.00
C 107	140	Mileage	4.50	630.00
C 200	395 SKS	CLASS "A" Cement	18.55	7327.25
C 205	1115 #	CaCl2 3%	.75*	836.25
C 206	740 #	Gel 2%	.30*	222.00
C 209	70 #	FIOSEAL 1/4" /SK (IN 275 SKS)	2.80*	196.00
C 108 B	18.57 TONS	TON Mileage	1.50	3899.70
C 413	1	8 5/8 wooden Plug	98.00	98.00
C 724	1	8 5/8 fiber Baffle Plate	157.00	157.00
C 606	1	8 5/8 Cement BASKET	380.00	380.00
			Sub TOTAL	14,693.40
			Less 5%	769.22
			Sales Tax	691.24
			7.5%	
Authorization <u>[Signature]</u> Title _____			Total	14,615.21

THANK you  
 M

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

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



Date	Invoice #
4/28/2022	6425

Bill To	
Hartman Oil Co., Inc. 10500 E. Berkeley Sq. Parkway Ste.100 Wichita, KS 67206	
Customer ID#	1320

Job Date	4/23/2022
Lease Information	
Heyen #1-3	
County	Stafford
Foreman	RM

Item	Description	Qty	Terms	Net 15
			Rate	Amount
C103	Cement Pump-Plug (new well)	1	1,500.00	1,500.00
C107	Pump Truck Mileage (one way)	140	4.50	630.00
C203	Pozmix Cement 60/40	220	15.75	3,465.00T
C206	Gel Bentonite	750	0.30	225.00T
C108B	Ton Mileage-per mile (one way)	1,324.4	1.50	1,986.60
D101	Discount on Services		-205.83	-205.83
D102	Discount on Materials		-184.50	-184.50T

*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

<b>Subtotal</b>	\$7,416.27
<b>Sales Tax (7.5%)</b>	\$262.91
<b>Total</b>	\$7,679.18
Payments/Credits	\$0.00
<b>Balance Due</b>	\$7,679.18

810 E 7<sup>TH</sup>  
 PO Box 92  
 EUREKA, KS 67045  
 (620) 583-5561



**Cement or Acid Field Report**  
 Ticket No. 6425  
 Foreman Russell  
 Camp EUREKA

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State	
4-23-22	1320	Hoyen # 1-3	2	24	13	STAFFORD	KS	
Customer HARTMAN OIL CO. INC.			Safety Meeting		Unit #	Driver	Unit #	Driver
Mailing Address 1610 E. EUREKA HWY. EUREKA, KS 67045			City EUREKA		State KS	Zip Code 67222		

Job Type ETA New well Hole Depth 411' Slurry Vol. \_\_\_\_\_ Tubing \_\_\_\_\_  
 Casing Depth \_\_\_\_\_ Hole Size 9 7/8" Slurry Wt. \_\_\_\_\_ Drill Pipe 4 1/2"  
 Casing Size & Wt. \_\_\_\_\_ Cement Left in Casing \_\_\_\_\_ Water Gal/SK \_\_\_\_\_ Other \_\_\_\_\_  
 Displacement \_\_\_\_\_ Displacement PSI \_\_\_\_\_ Bump Plug to \_\_\_\_\_ BPM \_\_\_\_\_

Remarks: Safety + JIL operations. Dig well as follows:  
 50 SK @ 4025'  
 50 SK @ 4100'  
 50 SK @ 4180'  
 30 SK @ 4260'  
 30 SK @ 4340'  
 20 SK @ 4420' (Rathole)  
 20 SK @ 4500' (Rathole)  
 20 SK @ 4580'  
 Thank you Russell  
 MICCO

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C-113	1	Pump Charge	1500.00	1500.00
C-117	140	Mileage	4.00	560.00
C-307	220	SK 6 3/4" 40' mix	15.95	3509.00
C-307	9.50	CEL - 4 1/2"	30	285.00
C-105A	7.41	Tank Truck Mileage x 140 miles	120	889.20
			517.00	7566.00
			-52	(410/11)
		<b>Sales Tax</b>		316.95
<b>Authorization</b>	<u>[Signature]</u>	<b>Title</b>	<u>Director</u>	<b>Total</b>
				419.17

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