

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. 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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3929 CLEAR CREEK COURT
RICHARDSON, TEXAS 75082
OFF/CELL: 972-890-2120
gahrens@epicexploration.com

POST DRILL G&G REPORT
ARCADIA'S GOODLAND #1 WELL/EAST GOODLAND PROJECT
SHERMAN COUNTY, KANSAS

Prepared By: Gary L. Ahrens/EPIC Exploration, L.L.C.
Date: May 8, 2020

DRILLING & LOGGING SUMMARY

The captioned well reached the driller's TD at 6004' the afternoon of 5/6/20 and Halliburton logged this well late that evening. E-logs include a quad combo and a dipole sonic, which is currently being processed by Halliburton and will be delivered upon completion. Mud logging was performed by MBC Well Logging, commencing just above the top of Niobrara formation and continuing to TD. A large interval (5050' – 5264') DST was performed encompassing the lower Atoka formation, the entire Morrow formation and the upper portion of the Mississippian. No cores were taken.

Based on the e-logs, the top of the Morrow Shale formation was encountered at a depth of approximately 5081'. The lower portion of this shale transitioned into a Morrow Sand at a depth of 5178' and the base of the Morrow/top Mississippian St. Louis formation was encountered at depth of 5214'. The Morrow channel (filled with sand, shale and some limey shale) in this wellbore was incised into the Mississippian as anticipated based on Burnett's reprocessed 3D seismic data. This is evidenced by the thin Mississippian St Louis formation (limestone) to Mississippian Spergen (dolomite) interval (5214'–5238' = 24' thick) that directly underlies the Morrow formation in the Goodland #1 well. For comparison the Mississippian St. Louis – Spergen formation interval in the nearby Phillips Capps #1 well (located just over 1800' north-northwest of the Goodland #1 well) is slightly over 70' thick based on the old e-log and sample log for that well.

The mud log over the Morrow formation is not as clear-cut as expected but this was largely due to fast drilling rates (average of ± 1 minute/foot) with a PDC bit, resulting in larger sample intervals with considerably mixed samples. However, a clean, 10' thick sand was identified in the Morrow channel on the mud log at 5180' (correlates to the 14' thick sand on the e-log at 5194') that exhibited good porosity, a streaming milky cut with scattered staining on a few of the quartz crystals and an associated gas increase to 41 units on the hot wire from a background reading of approximately 5 units. The large interval DST run across this sand and the entire Morrow formation recovered 1700' water ($R_w = 0.32$), 360' MCW and 240' Mud with no indication of hydrocarbons. Subsequent analyses based on the e-logs and utilizing the measured R_w from the water recovered on DST calculate nearly 100% water saturation for this sand. The only other formations in the captioned wellbore with mud log and/or e-log shows include the Niobrara formation (top at 8572') which contains gas and is extremely shallow/sub-commercial in this part of Sherman County, along with a minor e-log show in the upper Lansing formation (no associated mud log or gas shows and no nearby production) and three (3) minor gas shows in the Cherokee that appear to be associated with thin coal beds located at 4856', 4876' and 4919'. Based on these results, a recommendation was made to P&A this wellbore.

DISCUSSION AND RECOMMENDATIONS

The final outcome of this wellbore is disappointing since the well failed to encounter commercial quantities of hydrocarbons in the primary objective Morrow sand or any secondary objectives. However, the Morrow in this wellbore came in structurally as expected, the well did encounter the objective Morrow channel (which was only identifiable by virtue of Burnett's reprocessed 3D seismic data, since there were no existing wells with Morrow channels present within the 3D survey!), and the Morrow channel in this wellbore did have some sand 30' of channel sand with a minor hydrocarbon show.

Please also recall this prospect was generated from the original (2014) reprocessing of Burnett's licensed East Goodland 3D seismic survey data, which was performed without the benefit of any critical calibration data (density and dipole sonic logs) internal to the survey boundaries. At that time, the density data was obtained from a nearby well with a density log outside the survey, the sonic log (velocity) was obtained from a well two (2) townships to the north and there was no commercially available dipole sonic log (P & S-wave velocities) from a well penetrating the Morrow formation anywhere in Sherman County, Kansas; so assumptions regarding certain of these parameters were made.

Given these calibration issues, the large size of the 3D survey (36 square miles) and the number of Morrow channels identified in the survey area with the original reprocessing, I have always believed this project could not be effectively evaluated with a single well. The Goodland #1 wellbore now represents that much-needed calibration point we were previously lacking - a well ideally located near the center of the 36 square miles 3D survey with modern logs including critical neutron-density and dipole sonic logs that were previously unavailable within the 3D survey boundaries. As a result, I now recommend consideration be given to utilizing this new and valuable data from the Goodland #1 well to reprocess and properly calibrate the original 3D survey data. If approved, this new reprocessing should permit Burnett to better evaluate the remaining project potential including better assessments/prioritization of the remaining acreage and currently identified prospects (the proposed reprocessing could strengthen or condemn some or all of the existing prospects and/or even permit the identification of new prospects).

The total turnkey cost to perform the proposed new reprocessing and interpretation of the East Goodland 3D seismic utilizing the Goodland #1 wellbore data is \$55,000. This total includes a turnkey bid of \$45,000 for the conventional and advanced reprocessing of the 3D seismic data from Hardin International Processing, Inc., which represents a substantial reduction from Hardin's current pricing for such reprocessing. The total also includes a turnkey quote of \$10,000 from EPIC, which covers all processing supervision, data loading, interpretation and new mapping charges and this quote similarly represents a significant reduction to EPIC's normal charges for such work on a project of this size. Hardin estimates it will take a total of 6-8 weeks to complete all of their work (conventional and advanced reprocessing) and once the final reprocessed data is completed/delivered to EPIC, I estimate it will take another 2-3 weeks to load, interpret and complete the initial suite of maps incorporating the key results from this new reprocessing effort.

Burnett and its partners have spent a considerable amount of time, effort and money on this project to date and I know the Goodland #1 well results are disappointing for all involved. However, there remain other untested prospects and considerable unevaluated acreage within the project confines and I believe the data acquired as a result of drilling the Goodland #1 well along with the proposed new reprocessing/interpretation of Burnett's 3D seismic data should supply the best possible information from which Burnett and its partners can determine if this project merits any further exploration efforts.

Thank you for the opportunity to work in support of Burnett on this project and please do not hesitate to call/e-mail with any comments or questions you may have.

Election to participate in the reinterpretation process utilizing the current well log information from the Goodland #1, Sherman County, KS

R Neuhoff Properties, LLC

Robert V. Neuhoff
Printed Name

Elect to participate for its working interest share in the reinterpretation process described herein for an estimated gross cost of \$55,000

Robert V. Neuhoff
Signature

Elect not to participate in the reinterpretation process described herein

May 14, 2020
Date



DRILL STEM TEST REPORT

Prepared For: **Arcadia Operating LLC**

3811 Turtle Creek BLVD
STW 1900
Dallas, TX 75219

ATTN: Austin Garner

Goodland #1

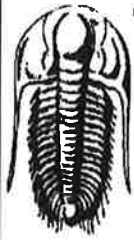
21-9S-39W Sherman,KS

Start Date: 2020.05.04 @ 21:13:00

End Date: 2020.05.05 @ 06:28:00

Job Ticket #: 66122 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Arcadia Operating LLC

21-9S-39W Sherman,KS

3811 Turtle Creek BLVD
STW 1900
Dallas, TX 75219
ATTN: Austin Garner

Goodland #1

Job Ticket: 66122

DST#: 2

Test Start: 2020.05.04 @ 21:13:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:29:00

Time Test Ended: 06:28:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 5050.00 ft (KB) To 5263.00 ft (KB) (TVD)

Total Depth: 5263.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3699.00 ft (KB)

3687.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8734

Outside

Press@RunDepth: 1056.72 psig @ 5051.00 ft (KB)

Start Date: 2020.05.04

End Date:

2020.05.05

Start Time: 21:13:01

End Time:

06:28:00

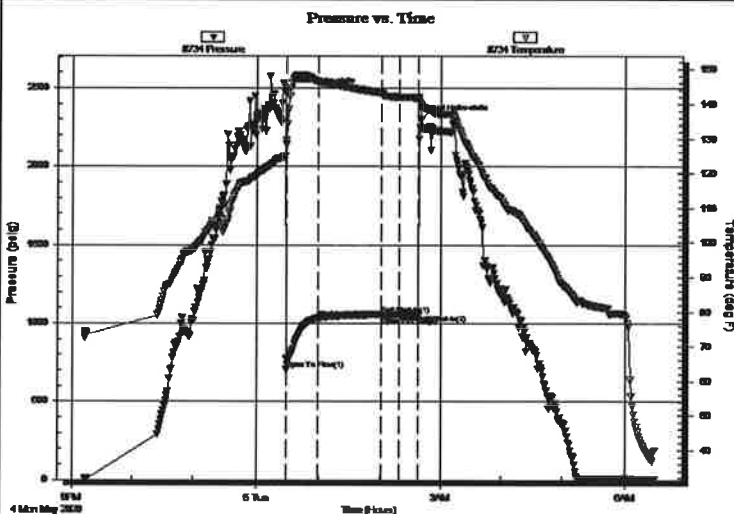
Capacity: 8000.00 psig

Last Calib.: 2020.05.05

Time On Btm: 2020.05.05 @ 00:27:40

Time Off Btm: 2020.05.05 @ 02:39:50

TEST COMMENT: 30-IF-BOB @ 1 mins (blow increased to 226 1/4") @ 1/8" choke & decreased to 196"
60-ISI-No blow back
20-FF-Surface blow built to 6"
15-FSI-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2470.74	124.94	Initial Hydro-static
2	704.55	129.48	Open To Flow (1)
33	1029.61	146.39	Shut-In(1)
94	1057.22	143.20	End Shut-In(1)
94	1041.67	142.97	Open To Flow (2)
111	1056.72	142.06	Shut-In(2)
130	1059.48	141.82	End Shut-In(2)
133	2298.71	140.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1700.00	SW 100% SW	23.85
360.00	MCW 20%M, 80% W	5.05
240.00	Mud 100% M	3.37

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Arcadia Operating LLC
3811 Turtle Creek BLVD
STW 1900
Dallas, TX 75219
ATTN: Austin Garner

21-9S-39W Sherman,KS

Goodland #1

Job Ticket: 66122

DST#: 2

Test Start: 2020.05.04 @ 21:13:00

Tool Information

Drill Pipe:	Length: 5035.00 ft	Diameter: 3.80 inches	Volume: 70.63 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 70.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	5050.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	213.00 ft			
Tool Length:	247.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5021.00	
Sampler	2.00			5023.00	
Hydraulic tool	5.00	1113		5028.00	
Jars	5.00	01-07		5033.00	
EM Tool	4.00			5037.00	
Safety Joint	3.00	-001		5040.00	
Packer	5.00			5045.00	34.00 Bottom Of Top Packer
Packer	5.00			5050.00	
Stubb	1.00			5051.00	
Recorder	0.00	8959	Inside	5051.00	
Recorder	0.00	8734	Outside	5051.00	
Perforations	18.00			5069.00	
Change Over Sub	1.00			5070.00	
Drill Pipe	189.00			5259.00	
Change Over Sub	1.00			5260.00	
Bullnose	3.00			5263.00	213.00 Bottom Packers & Anchor
Total Tool Length:	247.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Arcadia Operating LLC

21-9S-39W Sherman,KS

3811 Turtle Creek BLVD
STW 1900
Dallas, TX 75219
ATTN: Austin Garner

Goodland #1

Job Ticket: 66122

DST#: 2

Test Start: 2020.05.04 @ 21:13:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	48000 ppm
Viscosity:	59.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	5.59 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2700.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1700.00	SW 100% SW	23.847
360.00	MCW 20%M, 80% W	5.050
240.00	Mud 100% M	3.367

Total Length: 2300.00 ft Total Volume: 32.264 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .320 @ 37.0 degs = 48,000 PPM

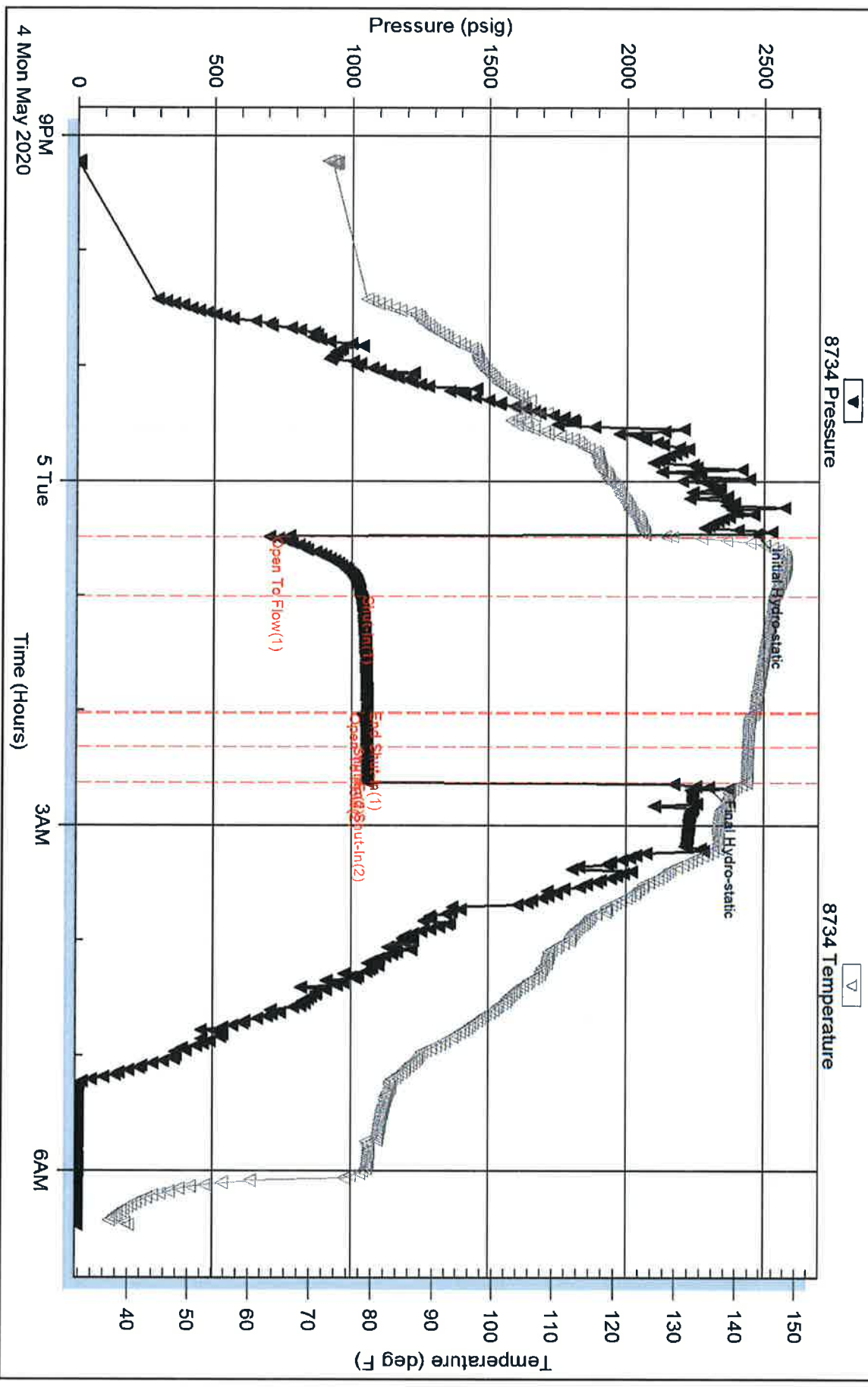
Serial #: 8734

Outside Arcadia Operating LLC

Goodland #1

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 66122

Printed: 2020.05.06 @ 09:29:17

Serial #: 8959

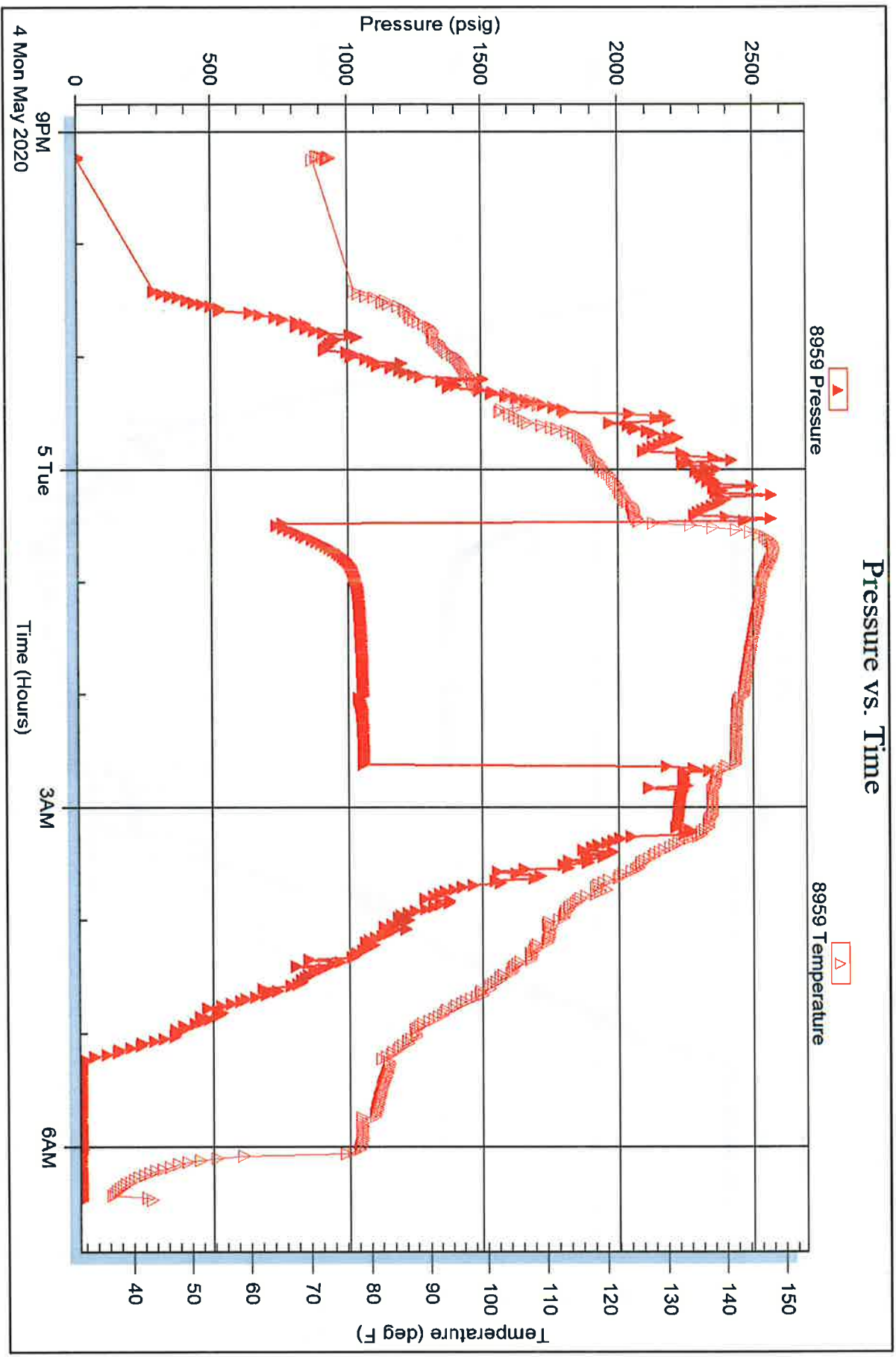
Inside

Arcadia Operating LLC

Goodland #1

DST Test Number: 2

Pressure vs. Time





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66121

NO.

Well Name & No. #1 Goodland Test No. 1 Date 5-4-20
 Company Arcadia Operating LLC Elevation 3699 KB 3687 GL
 Address 3811 Turtle Creek Blvd STE 1900 Dallas, TX 75219
 Co. Rep / Geo. Austin Garner Rig Duke #1
 Location: Sec. 21 Twp 9S Rge. 39W Co. Sherman State KS

Interval Tested 5050 - 5263 Zone Tested Morrow
 Anchor Length 213 Drill Pipe Run 5035 Mud Wt. 9.2
 Top Packer Depth 5045 Drill Collars Run --- Vls 54
 Bottom Packer Depth 5050 Wt. Pipe Run --- WL 6.4
 Total Depth 5263 Chlorides 3000 ppm System LCM 5#

Blow Description IF - Tite spot @ 1450'
ISI - Loss of Volume @ 1850'
FE - Loss of Volume @ 2650
FSE - Mis-Run - T.O.H w/Tool

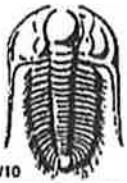
Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic _____	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>03:00</u>
(B) First Initial Flow _____	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>05:00</u>
(C) First Final Flow _____	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>07:06</u>
(D) Initial Shut-In _____	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>07:11</u>
(E) Second Initial Flow _____	<input type="checkbox"/> Hourly Standby _____	T-Out <u>08:56</u>
(F) Second Final Flow _____	<input checked="" type="checkbox"/> Mileage <u>236 RT</u> 191rt	Comments _____
(G) Final Shut-In _____	<input checked="" type="checkbox"/> Sampler _____	
(H) Final Hydrostatic _____	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open _____	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In _____	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow _____	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In _____	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1666</u>
	Sub Total <u>1666</u>	MP/DST Disc't _____

Approved By Austin Garner Our Representative [Signature]

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 66122

NO.

Well Name & No. #1 Gardland Test No. 2 Date 5-4-20
 Company Acadia Operating LLC Elevation 3699 KB 3687 GL
 Address 3811 Turtle Creek BLVD STE 1900 Dallas, TX 75219
 Co. Rep / Geo. Austin Gerner Rig Duke #1
 Location: Sec. 21 Twp 9S Rge. 39W. Co. Sherman State KS

Interval Tested 5050 - 5263 Zone Tested MURROW
 Anchor Length 213' Drill Pipe Run 5035 Mud Wt. 8.9
 Top Packer Depth 5045 Drill Collars Run — Vls 59
 Bottom Packer Depth 5050 Wt. Pipe Run — WL 5.6
 Total Depth 5263 Chlorides 2700 ppm System LCM 9#
 Blow Description IF - B.O.B @ 1 min (blow increased to 226'1/4" @ 1/8" choke & decreased to 196"
IST - No blowback
FF - S blow built to 6"
FST - No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>1700</u>	<u>SW</u>		<u>100</u>		
<u>360</u>	<u>MICW</u>		<u>80</u>	<u>20</u>	
<u>240</u>	<u>Mud</u>			<u>100</u>	

Rec Total 2300 BHT 140 Gravity — API RW 320 @ 37 °F Chlorides 48,000 ppm

(A) Initial Hydrostatic 2471 Test 1400 T-On Location 21:00
 (B) First Initial Flow 705 Jars 250 T-Started 21:13
 (C) First Final Flow 1030 Safety Joint 75 T-Open 00:28
 (D) Initial Shut-In 1057 Circ Sub _____ T-Pulled 02:33
 (E) Second Initial Flow 1042 Hourly Standby _____ T-Out 06:30
 (F) Second Final Flow 1057 Mileage 236 RT. 191 Comments Tools loaded @
 (G) Final Shut-In 1059 Sampler 250 07:45
 (H) Final Hydrostatic 2299 Straddle _____ EM Tool 350
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 350
 Accessibility _____ Total 2166
 Sub Total 2166 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 20
 Final Shut-In 15
 Approved By Not an Shuddy Our Representative Justin Salvo

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

FLUID SAMPLER DATA

Ticket No. 66121 Date 5-4-20

Company Name Arcadia Operating LLC

Lease #1 Goodland Test No. 2

County Toddman, KS. Sec. 21 Twp. 9N Rng. 39W

SAMPLER RECOVERY

Gas N/A ML

Oil N/A ML

Mud 100 ML

Water 1900 ML

Other N/A ML

Pressure 150 PSI ML

Total 2000 ML

PIT MUD ANALYSIS

Chlorides _____ ppm.

Resistivity _____ ohms @ _____ F

Viscosity _____

Mud Weight _____

Filtrate _____

Other _____

SAMPLER ANALYSIS

Resistivity 320 ohms @ 37.0" F

Chlorides 40/100 ppm.

Gravity _____ corrected @60F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM
Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

CASING CEMENTING DATA

WELL NAME & NUMBER					COUNTY & STATE		DATE CEMENTED	
Goodland # 1					Sherman, Kansas		4/29/2020	
Total Depth	Hole Size	Mud Wt.	Vis.	PV	YP	Gel. Str.	WL	Mud Type
359	12 1/4	9.4	40					W.B.

CEMENT DATA

STAGE 1					
SKS	YIELD	LEAD SLURRY COMPOSITION		SLURRY WT	WTR RATIO
250	1.21	Class A 60/40 POZ 2% Gel 3% CC 1/4 Kol Seal		14.8	5.8 gal / sx
Charged for only 220 sx cement as bid					
Total slurry bbl's 53.9					
SKS	YIELD	TAIL SLURRY COMPOSITION		SLURRY WT	WTR RATIO
STAGE 2					
SKS	YIELD	LEAD SLURRY COMPOSITION		SLURRY WT	WTR RATIO
SKS	YIELD	TAIL SLURRY COMPOSITION		SLURRY WT	WTR RATIO

EQUIPMENT DATA

SCRATCHERS			
MFG, TYPE, POSITION			
NONE			
CENTRALIZERS			
MFG, TYPE, POSITION			
3 total First 3 collars			
CEMENTING COMPANY		WASH AHEAD OF CMT TYPE	
Hurricane Services Inc. - Oakley, KS.		Fresh water	
		BARRELS	WEIGHT
		5	8.3

OPERATIONAL DATA

STARTED CIRC AT:	4:30	ENDED CIRC AT:	4:45	RATE BPM:	8
STARTED MIX AT:	4:45	ENDED MIX:	4:50	RATE BPM:	4.6
PLUG DOWN:	5:00	RATEBPM:	4.6	PIPE MOVE HOW:	
DISPLACED PLUG WITH: H2O		LOST RETURNS? NO		FINAL PSI: 800	
BLED BACK:		TOC ACTUAL: SURFACE		TOC CAL.: SURFACE	
CEMENT RETURNED: YES 5 BBLS.					
WHICH FLOAT JT.CONNECTIONS WERE:					
WELDED?					
THREAD-LOCKED? Jt. #1					
BOTH?					

CASING DATA

RKB-GND: 12		RKB-BH:		CASE ABOVE RKB: 3			
SIZE	WT.	GRADE	CONN.	COND	#JTS	FOOTAGE	DEPTH
8 5/8	24	J 55	8 Round	New	9	337.55	337.55
8 5/8	24	J 55	8 Round	Used	1	15.00	15.00
REMARKS:						CASE SEAT @ 352'	
Cement did not fall. Pipe Tight with cement.							
Collar 2' Below Ground Level							
No Guide shoe ran. Belled out bottom jt.							
8 8/5 AFU Flapper Insert Valve in top of first joint							
MAX LOGGING TEMP.		TIME SINCE CIRC.		SUPER. J. Mosier / N. Sheedy			

Duke Drilling Company, Inc.

Great Bend, Kansas

Daily Drilling Record

FOR 24 HOURS ENDING AT MIDNIGHT 05-07 2020 RIG NO. 1
 WELL OWNER Acordia Operating LEASE Goodland WELL NO. 1
 SECTION 2 TOWNSHIP 4 RANGE 39 COUNTY Shuman STATE KS

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 Mt			
			S.M. BOP	DRILLER Carlos Garcia 8			
				DERRICKMAN Roberto Garcia 8			
				MOTORMAN Jesus River 8			
				HELPER Daniel Pharis 8			
				HELPER			
DRILLING BITS		CASING RECORD: SIZE		BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.		REMARKS: 11:00-3:00 Logging & Loss Tools 3:00-4:00 Nipple down					
SIZE		BOP 4:00-4:30 1 1/2" W/Colar 4:30-6:00 L.P.U.					
MAKE		6:00-7:00 W/O Circulation					
SERIAL NO.							
SERIAL NO.							

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 Mt			
			S.M. L.O.D.P.	DRILLER Saul Garcia 8			
				DERRICKMAN Nino Mario Garcia 8			
				MOTORMAN Alejandro Vazquez 8			
				HELPER Dominic R Ryz 8			
				HELPER			
DRILLING BITS		CASING RECORD: SIZE		BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.		REMARKS: 7:00-8:30 W/ Cementers 8:30-9:00 T.H. 5" L.O.D.P. SAME					
SIZE		9" 11:15 T.H. w/ Plug STDs to 5700' 11:15-11:30 RV to Cement					
MAKE		11:30-3rd First Plug @ 5700 505x L.O.D.P. 2nd Plug @ 3130 505x					
SERIAL NO.		Plug 3 2250 1005x					
SERIAL NO.							

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 Mt			
				DRILLER Rosendo De La Cruz P. 8			
				DERRICKMAN Carlos Hernandez 8			
				MOTORMAN Esteban De La Cruz 8			
				HELPER Carlos Cruz 8			
				HELPER			
DRILLING BITS		CASING RECORD: SIZE		BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.		REMARKS: 3004' L.O.D.P. Plug #4 @ 400' 505x 40'-105x					
SIZE		305x RH 155x RH Plug down @ 4:30 P.M. 4:30-11:00 Ryzow 2					
MAKE							
SERIAL NO.							
SERIAL NO.							

Duke Drilling Company, Inc.

Great Bend, Kansas

Daily Drilling Record

FOR 24 HOURS ENDING AT MIDNIGHT 05-06 20 20 RIG NO. 1
 WELL OWNER Acordia Operating LEASE Goodland WELL NO. 1
 SECTION 21 TOWNSHIP 9 RANGE 39 COUNTY Sherman STATE Ks

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 Mrt	
5767	5980	213	S.M. Dev. Horiz	DRILLER	Carlos Garcia 8
			R/L 25	DERRICKMAN	Esteban Garcia 8
			S/L 2	MOTORMAN	Jerry Thomas 8
			Lg 1	HELPER	Daniel Moore 8
			H/L 20	HELPER	
			M.S. 4		

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>2</u>	REMARKS: 11:00-2:30 Drlg F/ 5767-5924 2:30-2:45 S.R				
SIZE <u>7 7/8</u>	2:45-7:00 Drlg F/ 5924-5980				
MAKE <u>MSI 516</u>					
SERIAL NO. <u>JN6941</u>					
SERIAL NO. <u>3-15-214</u>					
<u>88 7/8</u>	Drlg 7 S.R 7/4 Cmn 3/4				

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 Mrt	
5980	6004	24	S.M. Trip	DRILLER	Saul Garcia 8
			S/L 1	DERRICKMAN	Nino Mario Garcia 8
			Hull 15	MOTORMAN	Alejandro Vazquez 8
			Multi seal 3	HELPER	Dominic R Rye 8
				HELPER	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>2</u>	REMARKS: 7:00-9:30 Drlg @ 5980-6004- 9:30-10:30 CFS.				
SIZE <u>7 7/8</u>	10:30-12:00 Short Trip 19 std. 12:00-2:00 E.T.C.H				
MAKE <u>MSI 516</u>	2:00-3:00 Drop SS & T.O.H F/ logs				
SERIAL NO. <u>JN6941</u>					
SERIAL NO. <u>3-15-214</u>					
H.O. Bit <u>91</u>	Drlg 2 1/2 Cir 3 Trip 2 1/2				

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 Mrt	
6004	6000		S.M. Log 9015	DRILLER	Rosendo de la Cruz P. 8
				DERRICKMAN	Carlos Hernandez 8
				MOTORMAN	Exequiel de la Cruz 8
				HELPER	Carlos Cruz 8
				HELPER	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: 3:00-4:30 T.O.H F/ logs 4:30-7:15 R.H. Loggers				
SIZE	7 15/16 GIH w/ loggers tool 9:00-11:00 Log				
MAKE					
SERIAL NO.					
SERIAL NO.					

Duke Drilling Company, Inc.

Great Bend, Kansas

Daily Drilling Record

FOR 24 HOURS ENDING AT MIDNIGHT

05-05 2020 RIG NO. 1

WELL OWNER Acordia Operating LEASE Goodland WELL NO. 1

SECTION 21 TOWNSHIP 9 RANGE 34 COUNTY Shuman STATE Ks

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 mt			
			S.M. Trip	DRILLER <u>Carlos Garcia 8</u>			
				DERRICKMAN <u>Carlos Garcia 8</u>			
			1700' SW	MOTORMAN <u>Terrin Ramon 8</u>			
			360 M.W.				
			240 Mud	HELPER <u>Daniel Horne 8</u>			
			2300	HELPER			
DRILLING BITS		CASING RECORD: SIZE		BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.		REMARKS: 11:00-11:45 T.H.W/O.R. 11:45-12:30 P.U. 16 5/16					
SIZE		12:30-2:45 T.H.W/O.R. 2:45-6:30 T.O.H. W/100/1					
MAKE		6:30 7:00 T.H.W/O.R.					
SERIAL NO.							
SERIAL NO.							

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 mt			
5263	5420	157	S.M. Trips	DRILLER <u>Saul Garcia 8</u>			
			Gel 20	DERRICKMAN <u>Nino Maria Garcia 8</u>			
			cls 1	MOTORMAN <u>Alejandro Vazquez 8</u>			
			Lig 1				
			Pac 1/4	HELPER <u>Dominic R Ryz 8</u>			
			Exide 5 gal				
			Multiseal 1	HELPER			
DRILLING BITS		CASING RECORD: SIZE		BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	2	REMARKS: 7:00-11:15 T.H. BK Cir Every 9 std. 11:15-12:00 CTCL					
SIZE	7 7/8	12:00-3:00 Drig @ 5263-5420					
MAKE	MSI 516						
SERIAL NO.	JN 6941						
SERIAL NO.	2-14-3-15						
H.O. Bit	74 3/4	Drig 2 1/2 Trip 4 1/4 Conn 1/2 Cir 3/4					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 mt			
5420	5767	347	S.M. Conn	DRILLER <u>Rosendo De La Cruz 8</u>			
			Gbl 25	DERRICKMAN <u>Carlos Hernandez 8</u>			
			SH 1	MOTORMAN <u>Exequiel De La Cruz 8</u>			
			Condo 2				
			Pac 1/3	HELPER <u>Carlos Cruz 8</u>			
			Hul 10				
			Lig 1 1/2	HELPER			
			Exide 1				
			M Seal 2	HELPER			
DRILLING BITS		CASING RECORD: SIZE		BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	2	REMARKS: 3:00-2:30 Drig 5420-5672 2:30-2:45 - So Rig					
SIZE	7 7/8	2:45-11:00 Drig 5672-5767					
MAKE	MSI 516						
SERIAL NO.	JN 6941						
SERIAL NO.	2-14-3-15						
H.O. Bit	81 1/2	Drig 6 3/4 Conn 1 S. Rig 1/4					

Duke Drilling Company, Inc.

Great Bend, Kansas

Daily Drilling Record

FOR 24 HOURS ENDING AT MIDNIGHT

05-04 20 20 RIG NO. 1

WELL OWNER Acordia Operator LEASE Goodland WELL NO. 1

SECTION 21 TOWNSHIP 9 RANGE 39 COUNTY Sherman STATE Ks

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 mt			
			S.M. Trip	DRILLER Carlos Garcia 8			
			DST #1	DERRICKMAN Carlos Garcia 8			
			5050-5263	MOTORMAN Javier Rivas 8			
				HELPER Daniel Chavez 8			
				HELPER			
DRILLING BITS		CASING RECORD:	SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.		REMARKS: 11:00 - 1:30 C.T.H. 1:30-4:30 T.O.H. DST 1/1					
SIZE		4:30-7:00 M.L. DST Tool & T.H. w/Tool					
MAKE							
SERIAL NO.							
SERIAL NO.							

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 mt			
			S.M. Trips	DRILLER Saul Garcia 8			
			Loss Retort @ 2717	DERRICKMAN Nina Mario Garcia 8			
			Mix Hull w/ 72# Pull 13std	MOTORMAN Alejandra Vazquez 8			
			circ T.I.H. 9 std circ T.I.H.	HELPER Dominic R Rye 8			
			9std circ 3032 OK	HELPER			
			Cap-50 CS-2 5R-7 L.C.-1/4				
			Pac 1/2 Hull-90 Poly Phos-1				
			Mulh Seal-5				
DRILLING BITS		CASING RECORD:	SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.		REMARKS: 7:00 8:45 to H BK/D Tool 8:45-19:00 T.I.H w/Bit Loss Retort 2717					
SIZE		9130010:00 Bakocif pump 132# Cameron Backoxide Mix Mud. 1/2 T.I.H					
MAKE		9std @ time					
SERIAL NO.							
SERIAL NO.		Trips 4 Mix Mud 4					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420			
			S.M. Trips	DRILLER Rosanda de la Cruz P. 8			
			DST #2	DERRICKMAN Carlos Hernandez 8			
			5050-5263	MOTORMAN Exequiel de la Cruz 8			
				HELPER Carlos Cruz 8			
				HELPER			
DRILLING BITS		CASING RECORD:	SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.		REMARKS: 3:00-5:00 T.I.H 9std @ time 500-530 C.T.H					
SIZE		6:30-7:00 Spd Mud ON Bottom 7:00-7:30 T.O.H 1/1st					
MAKE		9:30/11:00 Pick up tool C.T.H					
SERIAL NO.							
SERIAL NO.		Trip 6 1/2 C.T.H w/					

Duke Drilling Company, Inc.

Great Bend, Kansas

Daily Drilling Record

FOR 24 HOURS ENDING AT MIDNIGHT 05-03 20 20 RIG NO. 1
 WELL OWNER Nicardia Operating LEASE Goodland WELL NO. 1
 SECTION 21 TOWNSHIP 9 RANGE 39 COUNTY Sherman STATE 11

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
4627	4910	283	S.M. Au Hbnd	420 Mt Custos Guccia 8
			Rel 35	DERRICKMAN Eustacio Guccia 8
			S/A 2	MOTORMAN Javier Thomas 8
			S/A 4	HELPER Daniel Flores 8
			lig 1 1/2	HELPER
			Pac 22	
			Hull 10	
			MS 2	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>2</u>	REMARKS: <u>11:00 - 1:30 Drlg @ 4627-4731</u>				
SIZE <u>7 7/8</u>	<u>2:00 - 7:00 Drlg @ 4731-4910</u>				
MAKE <u>MSI 516</u>					
SERIAL NO. <u>JN 6941</u>					
SERIAL NO. <u>3-15-2-14</u>					
H.O. Bit <u>1103</u>	<u>Drlg 6 1/2</u>	<u>Conn 1</u>	<u>S.R. 1/2</u>		

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
4910	5120	210	S.M. Clean pits	Saul Garcia 8
			Gel 58	420 Mt DERRICKMAN Nino Mario Garcia 8
			S/A 5	MOTORMAN Alejandro Vg2 8
			C/S 2	HELPER Dominic R Rg2 8
			lig 1 1/2	HELPER
			Pac 1	
			Hull 20	
			Excide 5 gal	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>2</u>	REMARKS: <u>7:00 - 8:30 Drlg @ 4910 - 4946</u>				
SIZE <u>7 7/8</u>	<u>8:30 - 9:00 CFS @ 4946</u>				
MAKE <u>MSI 516</u>	<u>9:00 - 10:30 Drlg @ 4946 - 5011</u>				
SERIAL NO. <u>JN 6941</u>	<u>10:30 - 11:00 S. Rig & clean section</u>				
SERIAL NO. <u>3-15-2-14</u>	<u>11:00 - 1:30 Drlg @ 5011 - 5120</u>				
H.O. Bit <u>69 3/4</u>	<u>Drlg 5</u>	<u>Conn 1/2</u>	<u>C/S 2</u>	<u>S. Rig 1/2</u>	

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
5120	5263	143	S.M. Trip	Rosendo De la cruz P. 8
				DERRICKMAN Carlos Hernandez 8
				MOTORMAN Eduardo de la cruz 8
				HELPER 420 Carlos Cruz 8
				HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>2</u>	REMARKS: <u>3:00 - 4:15 Drlg @ 5120 - 5160</u>				
SIZE <u>7 7/8</u>	<u>4:15 - 5:30 CFS @ 5160</u>				
MAKE <u>MSI 516</u>	<u>5:30 - 7:45 Drlg @ 5160 - 5263</u>				
SERIAL NO. <u>JN 6941</u>	<u>7:45 - 8:15 CFS @ 5263</u>				
SERIAL NO. <u>3-15-2-14</u>	<u>8:15 - 11:00 Strip</u>				
H.O. Bit <u>52 3/4</u>	<u>drlg 2 1/2</u>	<u>CFS 2 3/4</u>	<u>Short Trip 2 1/4</u>	<u>Conn 1/2</u>	
	<u>7 7/8</u>				

Duke Drilling Company, Inc.

Great Bend, Kansas

Daily Drilling Record

FOR 24 HOURS ENDING AT MIDNIGHT

05-02 2020 RIG NO. 1

WELL OWNER Nucelia Operating

LEASE Goodland

WELL NO. 1

SECTION 2 TOWNSHIP 9 RANGE 39 COUNTY Shuman

STATE Ks

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 mt DRILLER
3710	4070	360	S.M. Conn	Carlos Hucia 8
				DERRICKMAN <u>Eustacio Hucia 8</u>
			S/C 1 Hills 20 Mills 2	MOTORMAN <u>Justine Ramos 8</u>
				HELPER <u>Daniel Vojice 8</u>
				HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>2</u>	REMARKS: <u>11:00-1:00 Drig r/ 3710-3818</u>			<u>3518</u>	<u>1</u>
SIZE <u>7 7/8</u>	<u>1:30-7:00 Drig r/ 3818</u>				
MAKE <u>MSI 516</u>					
SERIAL NO. <u>526941</u>					
SERIAL NO. <u>3-15-2-14</u>					
H.O. Bit <u>48</u>	<u>Drig 6 1/2</u>	<u>Conn 1</u>	<u>Survey 1/2</u>		

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 mt DRILLER
4070	4300	230	S.M. Trip	Saul Garcia 8
			S/C 1 Hills 6	DERRICKMAN <u>Nino Mario Garcia 8</u>
				MOTORMAN <u>Alexandro Vazquez 8</u>
			Pull to surface 60 std	HELPER <u>Dominic R Ryz 8</u>
				HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>2</u>	REMARKS: <u>7:00-8:30 Drig @ 4070-4133</u>				
SIZE <u>7 7/8</u>	<u>8:30-11:15 Wiper Trip</u>				
MAKE <u>MSI 516</u>	<u>11:15-11:45 CTC-H</u>				
SERIAL NO. <u>526941</u>	<u>11:45-3:00 Drig @ 4133-4300</u>				
SERIAL NO. <u>3-15-2-14</u>					
H.O. Bit <u>52</u>	<u>Drig 4</u>	<u>Conn 3/4</u>	<u>Trip 2 3/4</u>	<u>Cir 1/2</u>	

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 mt DRILLER
4300	4627	327	S.M. Spinning Chain	Rosendo De La Cruz P. 8
		6E 30		DERRICKMAN <u>Carlos Hernandez 8</u>
		SH 4		MOTORMAN <u>Esiquiel De La Cruz 8</u>
		Lig 1		HELPER <u>Carlos Cruz 8</u>
		Proc 1/2		HELPER
		Coast 1		
		Hills 10		
			Pits down # 1-2	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>2</u>	REMARKS: <u>3:00-6:30 Drig 4300-4479</u>			<u>4479</u>	<u>3/4</u>
SIZE <u>7 7/8</u>	<u>6:30-9:00 Survey</u>				
MAKE <u>MSI 516</u>	<u>2:00-9:30 Drig 4479-4573</u>				
SERIAL NO. <u>526941</u>	<u>9:30-9:45 S.Rig</u>				
SERIAL NO. <u>3-15-2-14</u>	<u>9:45-11:00 Drig @ 4573-4627</u>				
H.O. Bit <u>58</u>	<u>Drig 6 1/4</u>	<u>Conn 1</u>	<u>S.Rig 1/4</u>	<u>Survey 1/2</u>	

Duke Drilling Company, Inc.

Great Bend, Kansas

Daily Drilling Record

FOR 24 HOURS ENDING AT MIDNIGHT 05-01 20 20 RIG NO. 1
 WELL OWNER Arcata Operating LEASE Goodland WELL NO. 1
 SECTION 21 TOWNSHIP 9 RANGE 39 COUNTY Shesman STATE Ks

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 MTR
2464	2874	410	S.M. PPE	DRILLER Carlos Garcia 8
				DERRICKMAN Esteban Garcia 8
				MOTORMAN Javier Ramos 8
			Hulls 20	HELPER Daniel Flores 8
				HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>2</u>	REMARKS: <u>11:00-2:00 Drlg F/2464-2590</u>	<u>2:00-2:15 S.R.</u>		<u>2843</u>	<u>1/4</u>
SIZE <u>7 7/8</u>	<u>2:15-6:00 Drlg F/2590-2843</u>	<u>6:00-6:15 Survey</u>			
MAKE <u>MS1516</u>	<u>6:15-7:00 Drlg F/2843-2874</u>				
SERIAL NO. <u>5N6941</u>					
SERIAL NO. <u>2-15-2-14</u>					
<u>1103</u>	<u>2972</u>	<u>Drlg 6 1/2 Conn 1</u>	<u>S.R. 1/4</u>	<u>Survey 1/4</u>	

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 MTR
2874	3347	473	S.M. Pinch Point	DRILLER Saul Garcia 8
	3347			DERRICKMAN Nino Mario Garcia 8
			Hulls - 10	MOTORMAN Alejandro Vazquez 8
				HELPER Dominic R Ryz 8
				HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>2</u>	REMARKS: <u>7:00-11:30 Drlg @ 2874-3158</u>	<u>11:30-12:00 S.Rig</u>		<u>3347</u>	<u>1</u>
SIZE <u>7 7/8</u>	<u>12:00-2:30 Drlg @ 3158-3347</u>	<u>2:30-3:00 Survey @ 3347</u>			
MAKE <u>MS1516</u>					
SERIAL NO. <u>JN6941</u>					
SERIAL NO. <u>3-15-2-14</u>					
<u>H.O. Bit 35</u>	<u>Drlg 5 1/2 Conn 1 1/2 S.Rig 1/2 Survey 1/2</u>				

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 MTR
3347	3710	363	S.M. Air Hard	DRILLER Rosendo De La Cruz P. 8
		661	40	DERRICKMAN Carlos Hernandez 8
		SH	10	MOTORMAN Exequiel De La Cruz 8
		1 1/2	3	HELPER Carlos Cruz 8
		Pac	1	HELPER
		air side	4	
		Hulls	6	
		M.S.W.	2	
			Pits closed # 1-2-3-4	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>2</u>	REMARKS: <u>3:00-6:30 Drlg @ 3347-3590</u>	<u>6:30-8:45 Clean Suction</u>			
SIZE <u>7 7/8</u>	<u>6:45-8:45 Displace & drlg 3590-3661</u>	<u>8:45-9:00 S.Rig</u>			
MAKE <u>MS1516</u>	<u>9:00-11:00 Drlg 3661-3710</u>				
SERIAL NO. <u>5N6941</u>					
SERIAL NO. <u>3-15-2-14</u>					
<u>H.O. B.</u>	<u>41 1/2</u>	<u>Drlg 6 1/2 Conn 1</u>	<u>clean suction 1/4</u>	<u>S.Rig 1/4</u>	

Duke Drilling Company, Inc.

Daily Drilling Record

Great Bend, Kansas

FOR 24 HOURS ENDING AT MIDNIGHT 04.30 20 20 RIG NO. 1
 WELL OWNER Arcadia Operating LEASE Goodland WELL NO. 1
 SECTION 21 TOWNSHIP 9 RANGE 39 COUNTY Shuman STATE Ks

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 M.T.
1090	1518	428	S.M. Survey	DRILLER Carlos Garcia 8
			6 1/2 35	DERRICKMAN Eusebio Garcia 8
			SH 1	MOTORMAN Jesus Ramos 8
			SH 5	HELPER Daniel Flores 8
			1 1/2 1 1/2	HELPER
			1 1/2 1/2	
			1 1/2 5	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY 1354	DEGREES OFF 1/2
RUN NO. <u>2</u>	REMARKS: <u>11:00-3:30 Drig 1/1090-1354</u>				
SIZE <u>7 7/8</u>	<u>3:30-3:45 Survey</u>				
MAKE <u>DM SN 6941</u>	<u>2:45-7:00 Drig 1/1354</u>				
SERIAL NO. <u>MSI 516</u>					
SERIAL NO. <u>3-15-2-14</u>					
<u>1103</u>	<u>12 1/4</u>	<u>Drig 6 3/4</u>	<u>Survey 1/4</u>	<u>Conn 1</u>	

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 M.T.
1518	1913	395	S.M. Lose Returns	DRILLER Saul Garcia 8
		GEI 30		DERRICKMAN Nino Mario Garcia 8
		SH 5		MOTORMAN Alejandro Vazquez 8
		Coastic 1		HELPER Dominic R Rye 8
		Proc 1 1/2		HELPER
		Lig 1 1/2		
		Hells 80		
		Lose 120 db		
		Line 2	<u>Pit Clean # 1-2-3</u>	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY 1864	DEGREES OFF 3/4
RUN NO. <u>2</u>	REMARKS: <u>7:00-11:30 Drig @ 1518-1864</u>				
SIZE <u>7 7/8</u>	<u>11:30-12:00 Survey</u>				
MAKE <u>MSI 516</u>	<u>12:00-12:15 S.Rig. Clean Suction</u>				
SERIAL NO. <u>TN 6941</u>	<u>12:15-12:45 Drig @ 1864-1913</u>				
SERIAL NO. <u>3-15-2-14</u>	<u>12:45-3:00 Lose Return T.O. 1/2 S std 8 Mix Pill w/20 #</u>				
<u>H.O. Bit</u>	<u>17 1/4</u>	<u>Drig 5</u>	<u>Survey 1/2</u>	<u>S.Rig 1/4</u>	<u>Lose Return 2 1/4</u>

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 M.T.
1913	2464	551	S.M. Conn	DRILLER Rosendo De la Cruz P. 8
		GEI 4		DERRICKMAN Carlos Hernandez 8
		SH 1		MOTORMAN Eusebio De la Cruz 8
				HELPER Carlos Cruz 8
				HELPER
			<u>Pit Clean # 1-2-3</u>	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY 2369	DEGREES OFF 3/4
RUN NO. <u>2</u>	REMARKS: <u>3:00-6:00 Drig 1913-2148</u>				
SIZE <u>7 7/8</u>	<u>6:00-6:15 S.Rig</u>				
MAKE <u>MSI 516</u>	<u>6:15-9:00 Drig @ 2148-2369</u>				
SERIAL NO. <u>TN 6941</u>	<u>9:00-9:30 Survey</u>				
SERIAL NO. <u>2-15-2-14</u>	<u>9:30-11:00 Drig 2369-2464</u>				
<u>H.O. Bit</u>	<u>23</u>	<u>Drig 5 3/4</u>	<u>Survey 1/2</u>	<u>S.Rig 1/4</u>	<u>Conn 1 1/2</u>

Duke Drilling Company, Inc.

Great Bend, Kansas

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FOR 24 HOURS ENDING AT MIDNIGHT 04-29 2020 RIG NO. 1
 WELL OWNER Accordia Operating LEASE Goodland WELL NO. 1
 SECTION 21 TOWNSHIP 9 RANGE 39 COUNTY Shuman STATE Ks

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	DERRICKMAN	MOTORMAN	HELPER	HELPER
245	355	110		420 mt DRILLER				

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>1</u>	REMARKS: <u>11:00-12:30 Dilg 1/2 245-355</u>			<u>25g</u>	
SIZE <u>1 1/4</u>	<u>12:30-12:45 CTCH 11 1/4 1:30 Skirt Trip 1:30-1:45 CILW</u>				
MAKE <u>U&L</u>	<u>1:45-2:15 TOLL 2:15-4:30 Run Cas 4:30-5:15 WOC</u>				
SERIAL NO. <u>714237</u>	<u>Cmt Hole 5:15-7:00 WOC</u>				
SERIAL NO. <u>3-15</u>	<u>Cement 10/2505X 60/40 3%CC 1/2 CF dil circ Cement</u>				
<u>170B</u>	<u>3</u>				

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	DERRICKMAN	MOTORMAN	HELPER	HELPER
355			S.M. Test B.o.p.	420 mt DRILLER				

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: <u>7:00 2:15 W.O.L. 2:15 3:00 - Dilg cmt & plug.</u>				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	DERRICKMAN	MOTORMAN	HELPER	HELPER
355	1090	725	S.M. Trip					
		661	20					
		SH	2					
		1 1/2		420 mt				
		1 1/2						
		28						
		2						
		1						
			Pits cleaned 1-2-3					

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>2</u>	REMARKS: <u>3:00-3:45 dilg 355-389 Tripout Pickup POCBIT</u>				
SIZE <u>1 1/2</u>	<u>3:45-4:30 Trip 4:30-7:15 dilg 389-729 7:15-7:30 - S. Rig</u>				
MAKE <u>U&L</u>	<u>7:20-8:00 Dilg 729-856 8:00-8:15 Survey 8:15-11:00</u>				
SERIAL NO. <u>3-15 2-14</u>	<u>Dilg 856-1090</u>				
SERIAL NO. <u>170B</u>	<u>5 1/2</u>				
	<u>Dilg 5 1/2 conn 1 1/4</u>				
	<u>Trip 3/4 Survey 1/4 S. Rig 1/4</u>				

Duke Drilling Company, Inc.

Great Bend, Kansas

Daily Drilling Record

FOR 24 HOURS ENDING AT MIDNIGHT

04-28

2020

RIG NO. 1

WELL OWNER *Arcadia Operating*

LEASE *Goodland*

WELL NO. 1

SECTION *71* TOWNSHIP *9* RANGE *39* COUNTY *Sherman*

STATE *Ks*

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 Mt DRILLER			
					<i>Carlos Garcia 8</i>		
				DERRICKMAN	<i>Eusebio Garcia 8</i>		
				MOTORMAN	<i>Javier Rubio 8</i>		
				HELPER	<i>Daniel Touz 8</i>		
				HELPER			
DRILLING BITS		CASING RECORD:	SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.		REMARKS: <i>7:00-3:00 w/o load</i>					
SIZE							
MAKE							
SERIAL NO.							
SERIAL NO.							

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 Mt DRILLER			
					<i>Saul Garcia 12</i>		
				DERRICKMAN	<i>Nino Mario Garcia 12</i>		
				MOTORMAN	<i>Alejandro Vazquez 12</i>		
				HELPER	<i>Dominic R Ryz 12</i>		
				HELPER			
DRILLING BITS		CASING RECORD:	SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.		REMARKS: <i>7:00-7:00 w/o load Rig Up</i>					
SIZE							
MAKE							
SERIAL NO.							
SERIAL NO.							

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	420 Mt DRILLER			
<i>Q</i>	<i>245</i>	<i>245</i>			<i>Roseado De La Cruz P. 12</i>		
			<i>Get 45</i>	DERRICKMAN	<i>Carlos Hernandez 12</i>		
			<i>Lim 1</i>	MOTORMAN	<i>Exo Ruzer De La Cruz 19</i>		
			<i>Hull 15</i>	HELPER	XXXXXXXXXX 7		
			<i>Spud @ 8:30 AM</i>	HELPER	<i>Carlos Cruz 12</i>		
DRILLING BITS		CASING RECORD:	SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	<i>11</i>	REMARKS: <i>11:00-7:00 Rig Up 7:00-8:30 8-19 RHMH</i>					
SIZE	<i>12 1/4</i>	<i>8:30-11:00 2-19 12 1/4 hole w/conn Sec Rig 1/2</i>					
MAKE	<i>Winn-Big D</i>						
SERIAL NO.	<i>714239</i>						
SERIAL NO.							
<i>HOB</i>	<i>1 1/2</i>	<i>Rig up mixed 8 conn-1 RHMH 1 1/2 Sec Rig 1/2</i>					

Duke Drilling Company, Inc.

Great Bend, Kansas

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FOR 24 HOURS ENDING AT MIDNIGHT

04-27 2020 RIG NO. 1

WELL OWNER *Mull*

LEASE *Bozrider*

WELL NO.

SECTION

TOWNSHIP

RANGE

COUNTY *Clark*

STATE *KS*

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	360 mt			
				DRILLER <i>Carlos Garcia 8</i>			
				DERRICKMAN <i>Eusebio Garcia 8</i>			
				MOTORMAN <i>Jesus Ramos 8</i>			
				HELPER <i>Daniel Flores 8</i>			
				HELPER			
DRILLING BITS		CASING RECORD:	SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.		REMARKS: <i>Load out Rig</i>					
SIZE							
MAKE							
SERIAL NO.							
SERIAL NO.							

FROM	DRILLED TO	FEET DRILLED	FORMATION	360 mt			
				DRILLER <i>Saul Garcia 8</i>			
				DERRICKMAN <i>Nino Maria Garcia 8</i>			
				MOTORMAN <i>Alexandro Vazquez 8</i>			
				HELPER <i>Dominic R Ryz 8</i>			
				HELPER			
DRILLING BITS		CASING RECORD:	SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.		REMARKS: <i>Load out Rig</i>					
SIZE							
MAKE							
SERIAL NO.							
SERIAL NO.							

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER			
				DERRICKMAN			
				MOTORMAN			
				HELPER			
				HELPER			
DRILLING BITS		CASING RECORD:	SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.		REMARKS:					
SIZE							
MAKE							
SERIAL NO.							
SERIAL NO.							