KOLAR Document ID: 1522669

Confiden	tiality Re	quested:
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

		DECODIDEIO		
WELL	HISTORY	- DESCRIPTIO	N OF WELL	& LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
Oil WSW SWD Gas DH EOR	Elevation: Ground: Kelly Bushing:
	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to EOR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #: GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East _ West
Recompletion Date Reached TD Completion Date of Recompletion Date	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:

KOLAR Document ID: 1522669

Operator Nar	ne:			Lease Name:	Well #:
Sec	Twp	S. R	East West	County:	

Page Two

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

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

Drill Stem Tests Taken (Attach Additional Sh	acate)	Y	′es 🗌 No			og Formatio	n (Top), Depth a	and Datum	Sample
Samples Sent to Geolo			⁄es 🗌 No	1	Name	Э		Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:		□ Y □ Y	Yes ☐ No Yes ☐ No Yes ☐ No						
		Rep	CASING ort all strings set-c] Ne	w Used rmediate, productio	on. etc.		
Purpose of String	Size Hole Drilled	Siz	ze Casing et (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
[ADDITIONAL	CEMENTING /	SQU	EEZE RECORD			
Purpose:	Depth Top Bottom	Туре	e of Cement	# Sacks Use	d		Type and	Percent Additives	
Protect Casing Plug Back TD Plug Off Zone									
 Did you perform a hydra Does the volume of the Was the hydraulic fracture 	total base fluid of the	hydraulic fr	acturing treatment		-	☐ Yes ns? ☐ Yes ☐ Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Date of first Production/Inj Injection:	jection or Resumed Pr	oduction/	Producing Meth	iod:		Gas Lift 🗌 O	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er Bb	ls.	Gas-Oil Ratio	Gravity
DISPOSITIO	N OF GAS:		Ν	IETHOD OF COM	MPLE	TION:		PRODUCTIC Top	DN INTERVAL: Bottom
Vented Sold (If vented, Subn	Used on Lease		Open Hole		-	·	nit ACO-4)	юр	Bollom
	foration Perform Top Botto		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeezend of Material Used)	
TUBING RECORD:	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Arcadia Operating, LLC
Well Name	GOODLAND 1
Doc ID	1522669

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	352	60/40 Poz	250	3% cc



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 Haliburton 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^{2} - $5238^{2} = 24^{2}$ 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 (Rw = 0.32), 360' MCW and 240' Mud with no indication of hydrocarbons. Subsequent analyses based on the e-logs and utilizing the measured Rw 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.

Page 2

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

RNeuhoff Broperties, LLC Robert V. Neuhoff Printed Name

Robert V. Newloff Signature May 14 2020 Date

X

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

the participate in Elect not to reinterpretation process described herein



DRILL STEM TEST REPORT

Prepared For: Arcadia Operating LLC

3811 Turtle Creek BLVD STW 1900 Dallas, TX 75219

ATTN: Austin Gamer

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

Printed: 2020.05.06 @ 09:29:16

(ONT	RILOBITE	DRILL STEM TE	SIREP	ORI				
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Arcadia Operating LLC		21-	9S-39W	/ Sherm	an,KS	
	ESTING , INC.	3811 Turtle Creek BLVD		Go	odland	#1		
		STW 1900 Dallas, TX 75219		Job	Ticket: 6	6122	DST#	#: 2
M South		ATTN: Austin Garner		Tes	t Start: 2	020.05.04	@ 21:13:00	
GENERAL INFO	ORMATION:							
		ft (KB)		Tes	ter:	Conventio Martine Sa 82	nal Bottom F alinas	lole (Reset)
nterval: 50 otal Depth: lole Diameter:	50.00 ft (KB) To 52 5263,00 ft (KB) (TV 7.88 inchesHole			Ref		evations: to GR/CF:	3687.0	00 ft(KB) 00 ft(CF) 00 ft
erial #: 8734 ress@RunDepth: tart Date: tart Time: EST COMMEN	1056.72 psig (2020.05.04 21:13:01 NT: 30-IF-BOB @ 1 m 60-ISI-No blow ba	End Date: End Time: ins (blow increased to 226 1/4	2020.05.05 06:28:00 ") @ 1/8" choke	Capacity Last Cali Time On Time Off & decrease	b.: Btm: Btm:		8000.0 2020.05.0 5 @ 00:27:4 5 @ 02:39:5	0
	20 EE Curfage bl	and built to Cl						
	20-FF-Surface bl 15-FSI-No blow b Pressure vs. Th	ack	Time	Pressure		RE SUM		
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Length (ft) 1700.00 SW	15-FSI-No blow b Pressure vs. Th Pressure vs. Th Press	volume (bbl)	(Min.) 0 2 33 194 94 94 94 111 111 (465	Pressure (psig) 2470.74 704.55 1029.61 1057.22 1041.67 1056.72 1059.48	Temp (deg F) 124.94 129.48 146.39 143.20 142.97 142.06 141.82 140.02	Annota Initial Hyd Open To Shut-In(2 End Shu Open To Shut-In(2 End Shu Final Hyd	etion dro-static Flow (1) 1) t-In(1) Flow (2) 2) t-In(2) dro-static	Gas Rate (Mcf/d)
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RILOBITE	Arcadia Operating LLC		21-95-3	39W Sherma	an.KS
ESTING , IN					
	3811 Turtle Creek BLVD STW 1900		Goodla		
	Dallas, TX 75219		Job Ticke	et: 66122	DST#:2
	ATTN: Austin Garner		Test Sta	rt: 2020.05.04	@ 21:13:00
GENERAL INFORMATION:	ŀ				
ormation: Morrow					
eviated: No Whipstock ime Tool Opened: 00:29:00	ft (KB)		Test Typ Tester:	Martine Sa	nal Bottom Hole (Reset)
ime Test Ended: 06:28:00			Unit No:		111103
	5263.00 ft (KB) (TVD)		Referen	ce Elevations:	3699.00 ft (KB)
otal Depth: 5263.00 ft (KB)					3687.00 ft (CF)
lole Diameter: 7.88 inchesH	ole Condition: Good			KB to GR/CF:	12.00 ft
Serial #: 8959 Inside			0		
Press@RunDepth: psig Start Date: 2020.05.04	g @ 5051.00 ft (KB) 4 End Date:	2020.05.05	Capacity: Last Calib.:		8000.00 psig 2020.05.05
Start Date: 2020.05.04 Start Time: 21:13:0		2020.05.05	Time On Btm:		2020.00.00
2110.0		00.20.00	Time Off Btm:		
15-FSI-No blov	s. Time			SURE SUM	
15-FSI-No blov	v back		DDEC		MADY
15-FSI-No blov	v back	Time	Pressure Te	emp Annota	
15-FSI-No blov	v back	Time (Min.)	Pressure Te		
15-FSI-No blov	v back	(Min.)	Pressure Te	emp Annota	
15-FSI-No blov	v back	(Min.)	Pressure Te	emp Annota	
15-FSI-No blov	v back	(Min.)	Pressure Te	emp Annota	
15-FSI-No blov	v back	(Min.)	Pressure Te	emp Annota	
15-FSI-No blov	v back	(Min.)	Pressure Te	emp Annota	
15-FSI-No blov	v back	(Min.)	Pressure Te	emp Annota	
15-FSI-No blov	v back	(Min.)	Pressure Te	emp Annota	
15-FSI-No blov	v back	(Min.)	Pressure Te	emp Annota	
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10in	RILO		DRI	LL STE	M TES	F REPOR	RT	TOOL DIAGRA
			Arcadia	Operating L	LC		21-9S-39W She	rman,KS
	I EST	TING , INC	3811 Tu	urtle Creek BL	.VD		Goodland #1	
			STW 19				Job Ticket: 66122	DST#: 2
ALC: NO				TX 75219 Austin Garn	or		Test Start: 2020.05	04 @ 01:10:00
where all c			ATTN.	Austin Gam	ei		Test Start: 2020.05	.04 @ 21:13:00
Tool Information	on		<u>10</u>					
Drill Pipe:	Length:	5035.00 ft	Diameter:	3.80 in	ches Volume	: 70.63 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 in	ches Volume	: 0.00 bbl	Weight set on Pa	acker: 25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:		ches Volume		Weight to Pull Lo	ose: 76000.00 lb
Drill Pipe Above I	KB.	19.00 ft			Total Volume	: 70.63 bbl	Tool Chased	0.00 ft
Depth to Top Pac		5050.00 ft					String Weight: In	
Depth to Bottom		ft					Fi	inal 70000.00 lb
Interval between		213.00 ft						
Tool Length:		247.00 ft						
Number of Packe	ers:	2	Diameter:	6.75 in	ches			
Tool Comments:								
	on	Le	ngth (ft)	Serial No.	Position	Depth (ft) A	ccum. Lengths	
Tool Comments: Tool Descriptic Shut In Tool	on	Le	5.00	Serial No.	Position	Depth (ft) A 5021.00	ccum. Lengths	
Tool Descriptic Shut In Tool Sampler	on	Le	5.00 2.00		Position		ccum. Lengths	
Tool Descriptic Shut In Tool Sampler Hydraulic tool	on	Le	5.00	Serial No. 1113	Position	5021.00	ccum. Lengths	
Tool Descriptio Shut In Tool Sampler Hydraulic tool	on	Le	5.00 2.00		Position	5021.00 5023.00	ccum. Lengths	
Tool Descriptio Shut In Tool Sampler Hydraulic tool Jars EM Tool	on	Le	5.00 2.00 5.00 5.00 4.00	1113 01-07	Position	5021.00 5023.00 5028.00	ccum. Lengths	
Tool Descriptio Shut In Tool Sampler Hydraulic tool Jars EM Tool Safety Joint	on	Le	5.00 2.00 5.00 5.00 4.00 3.00	1113	Position	5021.00 5023.00 5028.00 5033.00	ccum. Lengths	
Tool Descriptio Shut In Tool Sampler Hydraulic tool Jars EM Tool Safety Joint Packer	on	Le	5.00 2.00 5.00 4.00 3.00 5.00	1113 01-07	Position	5021.00 5023.00 5028.00 5033.00 5037.00	accum. Lengths	Bottom Of Top Packer
Tool Description Shut In Tool Sampler Hydraulic tool Jars EM Tool Safety Joint Packer Packer	on	Le	5.00 2.00 5.00 5.00 4.00 3.00 5.00 5.00	1113 01-07	Position	5021.00 5023.00 5028.00 5033.00 5037.00 5040.00 5045.00 5050.00		Bottom Of Top Packer
Tool Description Shut In Tool Sampler Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb	on	Le	5.00 2.00 5.00 4.00 3.00 5.00 5.00 1.00	1113 01-07 -001		5021.00 5023.00 5028.00 5033.00 5037.00 5040.00 5045.00 5050.00 5051.00		Bottom Of Top Packer
Tool Description Shut In Tool Sampler Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Recorder	on	Le	5.00 2.00 5.00 4.00 3.00 5.00 5.00 1.00 0.00	1113 01-07 -001 8959	Inside	5021.00 5023.00 5028.00 5033.00 5037.00 5040.00 5045.00 5050.00 5051.00		Bottom Of Top Packer
Tool Description Shut In Tool Sampler Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Recorder Recorder	on	Le	5.00 2.00 5.00 5.00 4.00 3.00 5.00 5.00 1.00 0.00 0.00	1113 01-07 -001		5021.00 5023.00 5028.00 5033.00 5037.00 5040.00 5045.00 5050.00 5051.00 5051.00		Bottom Of Top Packer
Tool Description Shut In Tool Sampler Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Recorder Recorder Perforations		Le	5.00 2.00 5.00 5.00 4.00 3.00 5.00 5.00 5.00 1.00 0.00 0.00 18.00	1113 01-07 -001 8959	Inside	5021.00 5023.00 5028.00 5033.00 5037.00 5040.00 5045.00 5051.00 5051.00 5051.00 5051.00		Bottom Of Top Packer
Tool Description Shut In Tool Sampler Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sub		Le	5.00 2.00 5.00 5.00 4.00 3.00 5.00 5.00 1.00 0.00 0.00	1113 01-07 -001 8959	Inside	5021.00 5023.00 5028.00 5033.00 5037.00 5040.00 5045.00 5050.00 5051.00 5051.00		Bottom Of Top Packer
Tool Description Shut In Tool Sampler Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe	D		5.00 2.00 5.00 5.00 4.00 3.00 5.00 5.00 5.00 1.00 0.00 0.00 18.00	1113 01-07 -001 8959	Inside	5021.00 5023.00 5028.00 5033.00 5037.00 5040.00 5045.00 5051.00 5051.00 5051.00 5051.00		Bottom Of Top Packer
Tool Description Shut In Tool Sampler Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe	D		5.00 2.00 5.00 5.00 4.00 3.00 5.00 5.00 1.00 0.00 18.00 1.00	1113 01-07 -001 8959	Inside	5021.00 5023.00 5028.00 5033.00 5037.00 5040.00 5045.00 5051.00 5051.00 5051.00 5051.00 5051.00 5051.00		Bottom Of Top Packer
Tool Descriptio Shut In Tool Sampler Hydraulic tool Jars	D		5.00 2.00 5.00 5.00 4.00 3.00 5.00 5.00 1.00 0.00 18.00 189.00	1113 01-07 -001 8959	Inside	5021.00 5023.00 5028.00 5033.00 5037.00 5040.00 5045.00 5050.00 5051.00 5051.00 5051.00 5051.00 5051.00 5051.00 5059.00		Bottom Of Top Packer

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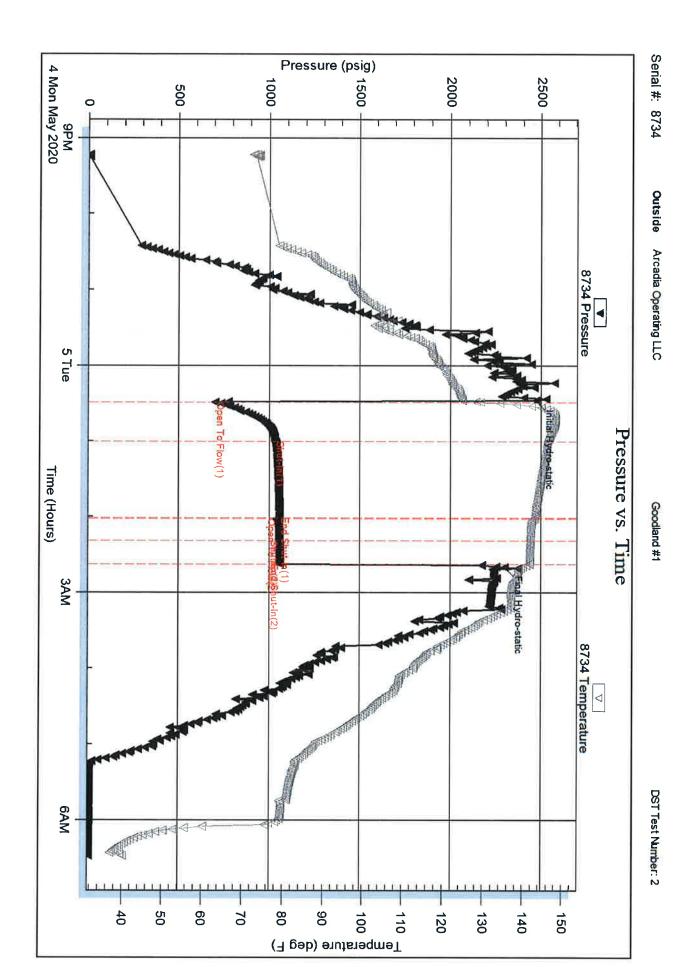
-

	RILOBITE	DRI	LL STEM TEST REPOR	Т	FLUID SUMMAR
		Arcadia	a Operating LLC	21-9S-39W Shermai	n,KS
	ESTING , INC	1	urtle Creek BLVD	Goodland #1	
		STW 19	900 TX 75219	Job Ticket: 66122	DST#:2
			Austin Garner	Test Start: 2020.05.04 @	21:13:00
Nud and Cu	shion Information				
Aud Type: Ge	l Chem		Cushion Type:	Oil API:	deg API
<i>A</i> ud Weight:	9.00 lb/gal		Cushion Length:	ft Water Salini	ty: 48000 ppm
/iscosity:	59.00 sec/qt		Cushion Volume:	bbl	
Vater Loss:	5.59 in ³		Gas Cushion Type:		
Resistivity:			Gas Cushion Pressure:	psig	
Salinity: Filter Cake:	2700.00 ppm 1.00 inches				
Recovery Int	formation				
			Recovery Table		
	Len		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	I	
	Num Fluid San		Num Gas Bombs: 0	Serial #:	
	Laboratory Na Recovery Cor		Laboratory Location: N = .320 @ 37.0 degs = 48,000 PPM		
	-		-		





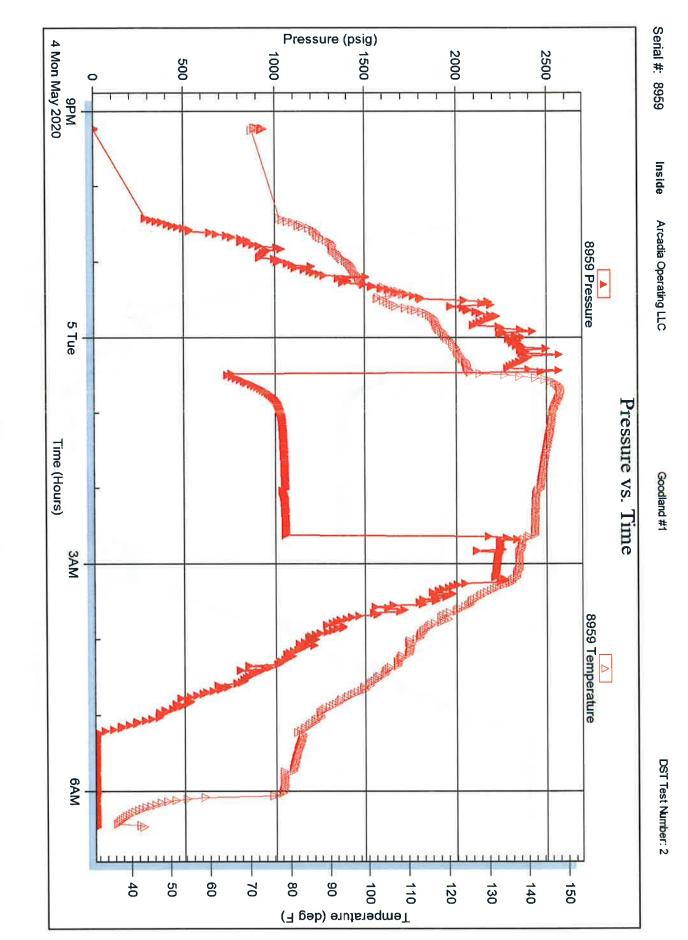
Trilobite Testing, Inc



Printed: 2020.05.06 @ 09:29:18

Ref. No: 66122







RILOBITE ESTING INC.

1515 Commerce Parkway · Hays, Kansas 67601

Test Ticket 66121

NO.

	#1 Goudland.					
Company Arco	dia Operating LLC		Elevation	3699	кв <u>3687</u>	GL
Address 3811	Turtle Creek BLUD ST	EIGLD Dalles,	TK 75219			
Co. Rep / Geo. A	istin Garner		Rig_Dr	ike #1		
	1TwpS			Man	State_K	S
Interval Tested 50	50 - 5263	Zone Tested	Morrow			
Anchor Length_2	13	Drill Pipe Rur	5035.		Mud WI. 9.2	
Top Packer Depth _	5045.	Drill Collars F	Run		Vis <u>54</u>	
Bottom Packer Depl	1h 50.50	Wt. Pipe Run			WL6.4	
Total Depth 526	<u>і</u> з	Chlorides 3	200	_ppm System	LCM 5#	
Blow Description	F. Tite Spot @ 14	50'				
k	I. LUSS OF VIDLUME	@ 1850'				
A	F. LOSS of Volume	C 2650				
ÉS:	- Mis-Run - T.C	H w/Tool				
Rec			%gas	%oil	%waler	100 %mud
Rec	_ Feet of		%gas	%oil	%waler	%mud
Rec	_ Feet of		%qas	%oil	%water	%mud
Rec	_ Feet of		%gas	%oil	%water	%mud
Rec	_ Feet of		%gas	%oil	%water	%mud
Rec Total/	ВНТ	Gravity	API RW	@	F Chlorides	ppm
(A) Initial Hydrostati	c/	_ X Test 115	50	T-On	Location 03.00	
(B) First Initial Flow		_ 📈 Jars2	250		rted OS.W	
(C) First Final Flow	<u>\</u>	_ 💢 Safety Joint _	75		en 07.06	-
(D) Initial Shut-In	<u> </u>	_ 🖸 Circ Sub			led 67:11	
(E) Second Initial Fl	ow	- O Hourly Stand	lby		108:56	
(F) Second Final Flo	ow wa	Mileage 2	36 RT. 191	rt	ments	
(G) Final Shut-In	<u>_</u>	Sampler				
(H) Final Hydrostatic	c	· · · · · · · · · · · · · · · · · · ·		\vec{1}{2}	M Tool 350	
			r	2	luined Shale Packer	
Initial Open		C Extra Packer			luined Packer	
Initial Shut-In	/	_ 🔾 Extra Record	ler		xtra Copies	
Final Flow	/		3	2.1	Total 0	
Final Shut-In		- C Accessibility			4000	1171 A.V.
•		Sub Total16	366	MP/I	DST Disc't	
Approved By	ustoro Games		Our Representat	ive Alta	Alicia	
Well of the Woods of the Art of the	A fear that the data shares and all many title it when any o	in the second se	the mark to make a sta-	and the back and a second	and a fait of the second se	AL

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a lest 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 lest, tools lost or damaged in the hole shall be paid for all cost by the party for whom the lost is made.

lear licker 00	Test Ticket 661	LL
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RILOBITE ESTING INC.

1515 Commerce Parkway - Hays, Kansas 67601

NO.

Well Name & No. # 1 Goodland	Test No	Date 5-4-20
Company Acadia Operativa LLC		AND IN MARK
Address 3811 Turtle Creck BLVD ST		
Co. Rep/Geo. Bushn Garner	Rig Duke #	L/
Location: Sec. 21Twp 9.5	Rge. 39 W. Co. Sherman	State KS
Interval Tested 5050 - 522C3	Zone Tested Morrow	
Anchor Length_621.3		Mud Wt. <u>8.</u> 9
Top Packer Depth 5045		-
Bottom Packer Depth50 50	Wt. Pipe Run	
Total Depth	Chiorides 2700ppm	
Blow Description IF. B.O. B.C. min (b)		
IST . No blowberk		
FF . 5 blow built to	6"	
FST NU blumback		
Rec_1700 Feet of SW	%gas	%oil /20 %water %mu
Rec. 360 Feet of MCN	%gas	%oil 80 %water 20 %mu
Rec. 240 Feet of Mad	%gas	%oil %water 100 %mu
Rec Feet of	%gas	%oil %water %mu
Rec Feet of	%gas	%oil %water %mu
Rec Total 200 2300 BHT 140	Gravity API RW 320 @	57 F Chlorides
(A) Initial Hydrostatic_2471	7 Test 1400	T-On Location 21:00
(B) First Initial Flow 705	Jars 250	T-Started 21:13
(C) First Final Flow しる	Salety Joint75	T-Open 00;28
(D) Initial Shut-In	Circ Sub	T-Pulled
(E) Second Initial Flow	C Hourly Standby	T-Out 06:30
(F) Second Final Flow 10.57	Mileage 236 RT. 191	Comments Tou 15 louded Q.
(G) Final Shut-In 1059	Sampler 250	07:45
(H) Final Hydrostatic_2299	G Straddle	EM Tool 350
	Shale Packer	Rulned Shale Packer
Initial Open _ <u>3</u>	C Extra Packer	
initial Shut-In <u>60</u>	C Extra Recorder	
Final Flow	Day Standby	
Final Shut-In _13	Accessibility	Total 2166
mel N. O	Sub Total 2166	MP/DST Disc't
Approved By 119 an Inud	Our Representative	pute Salue .

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 susplined, directly or Indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools fost 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 SAN	IPLER DATA		
Ticket No. (26 12 1		Date <u>5 11-a</u>	<u>0</u>	5
Company Name Arcadia Operat	ing LLC			
Lease #1 Gundlord	n an	Test No.		
County Thorman 15		Sec. <u>21</u>	Twp. <u>? ?</u>	Rng. 3944
SAMPLER RECOVER	Y		PIT MUD ANALYSI	S
Gas MA	ML.	Chlorides	/	ppm,
Oil WA	ML	Resistivity	ohms @_	F
Mud _100	ML	Viscosity	X	
Water0	ML	Mud Weight		
Other MA				
Pressure 150 PSI	PSS ML	Other		
Total	ML			
SAMPLER ANALYSIS			PIPE RECOVERY	
Resistivity ohms @	7.0 F			
Chlorides 48 (200	ppm.	Resistivity		F
				ppm.
Gravity co	prrected @60F	MIDDLE Resistivity	ohms @	F
		Chlorides	A	ppm.
		воттом		
		Resistivity		F
		Chlorides		ppm.
			í.	

		CAS	SING C	EME	NTIN	G DA ⁻	ГА	
		NAME & NL	IMBER		COUNTY	' & STATE	DATE CE	MENTED
Goodland # '					Sherman,			4/29/2020
Tolal Depth			Vis.	PV	YP	Gel. Str.	WL	Mud Type
359		9.4	40					W.B.
CEMEN		A						
				STAGE				
SKS	YIELD		LEAD SLU				SLURRY WT	WTR RATIO
250			40 POZ 2%	Gel 3% CC	1/4 Kol Se	eal	14.8	5.8 gal / sx
Charged for Total slurry b		cement as	DIQ					
SKS	YIELD			RAY COMP			SLURRY WT	WTR RATIO
500	TILLD		TAIL SLUP		0011010			
				STAGE	2			
SKS	YIELD		LEAD SLU	RRY COMP	OSITION		SLURRY WT	WTR RATIO
SKS	YIELD		TAIL SLUF	RRY COMP	OSITION		SLURRY WT	WTR RATIO
EQUIPN		JAIA						
				SCRATCH	ERS			
MFG, TYPE,	POSITION	J						
NONE								
				CENTRALI	7ERS			
MFG, TYPE,	POSITION	J		OEIIIIAEI				
3 total First 3		•						
	oonaro							
	TING COM			H AHEAD (OF CMT T	YPE	BARRELS	WEIGHT
Hurricane Ser	vices Inc	Oakley, KS.	Fresh water				5	8.3
OPERA	TIONA	L DAT	Α					
STARTED	CIRC AT:	4:30	ENDE	D CIRC AT:		4:45	RATE BPM:	8
	D MIX AT:	4:45		NDED MIX:		4:50		4.6
	G DOWN:		RATEBPM:		PIPE MO	OVE HOW:		
DISF	LACED PL	UG WITH:	H20	LOST R	ETURNS?	NO	FINAL PSI:	800
BL	ED BACK:		TO	C ACTUAL:				SURFACE
	14/1 11 01 1 -				EMENT R	ETURNED:	YES 5 BBLS.	
· · · · ·	WHICH F VELDED?	LUAI JI.C	ONNECTIO	NS WERE:				
	VELDED?	.lt #1						
	BOTH?	οι. <i>π</i> Ι						
CACINIC		٨						
CASINO								
	rkb-gnd:	12				BOVE RKB:	3	
SIZE	WT.		ADE	CONN.	COND	#JTS	FOOTAGE	DEPTH
8 5/8		J 55		8 Round	New	9		
8 5/8	24	J 55		8 Round	Used	1	15.00	15.00
					1			
REMARKS:						<u>.</u>	CASE SEAT @	352'
Cement did r	not fall. Pip	e Tight with	cement.					
Collar 2' Belo	w Ground	Level						
No Guide sh								
8 8/5 AFU FI						0		
MAX LOGGI	NG TEMP.		TIME SINC	E CIRC.		SUPER.	J. Mosier / N. S	needy

Duk	ce Drill	ing Co	ompany, i	Inc.	Dail	y Drilling	Record
FOR 24 HOUR	Gre	at Bend, I	Kansas			05-07 202	
	A				SE Guadhand		
WELL OWNER		15 7					L NO
SECTION	TOWN	SHIP		COUNTY	Alistat	S	
IF IN	JURED: SIGN	AND DESC	RIBE INJURY UN	DER REMARKS		WE HAVE NOT BEEN	INJURED THIS DAY
FROM	ILLED TO	FEET	FO	RMATION	420 14 11 +	a 1	
			S.M 30	P	DRILLER	Culos Gar	c.a. 8
						AN Tachara Gus	8
					DERRICKM	AN 20.70 CO UNIS	
					MOTORMAN	Jour Taxos	8
					HELPER	David 11/10	5
		-					
-	0.0170				HELPER		
DRILLING RUN NO.	G BITS	CASING R	The second second	BOTTOMED AT	CEMENT USE		
SIZE		REMARKS		00 10ggu		a second s	0-400 Napple sha
MAKE		- 15/3P		1:30 1111		4-30 6'00 1	1998
SERIAL NO.		6.0	10-700 h	10 Cincal	inc is		
SERIAL NO.							
FROM	ILLED TO	FEET	FO	RMATION	420 Mrt	0	1
FROM		DRIELED	S.M. 1.1	D.D.D.	DRILLER	Saul Gar	cia 18
-					DERRICKM	N NIAO Mari	o Garcia 8
<u></u>		_				Ni este a R	Varian D
-		-			MOTORMAN	Aletandro	Varjue 2 0
1.000					HELPER	Dominic K	R R. 12 8
	DITO.	-			HELPER		
DRILLING	GBITS	CASING R		BOTTOMED AT	CEMENT USE		
RUN NO.	5	REMARKS	7:00-8,30	Wo Cemo	A REAL PROPERTY AND A REAL		LDOP SAME
MAKE		7-1	200 - 10	11/1195703 10	5700 11:15	11 -11	
SERIAL NO.		11:30	5 F1657 11	4983700 5	OFX LOUF 2"	- Hug Q 3130	0 503X
SERIAL NO.		Plug	2 2130 1	DOSK			
*	N 1	v	<u> </u>				
	ILLED	FEET	FO	RMATION	4120 Mi	1	
FROM	то	DRILLED			DRILLER	Rosendo De	1. 1400 P 8
							60 1446
					DERRICKM	N Carlos Her	noudez 8
						EL D LI D	
-					MOTORMAN	CRUYGIEL M	2 LO CIUE D
					HELPER	Carlos cri	12 8
19-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-							
	DITE	0.00			HELPER		
DRILLING		CASING R	n00111 1	BOTTOMED AT	CEMENT USE		EVEY DEGREES OFF
SIZE		REMARKS		143		505× 40-10	21
MAKE		305%	RH 1597	117 Plus	down eg	30 P.M. 4:30	- 11.º 0 Riyobu
SERIAL NO.		_				All and the second	
SERIAL NO.		_					
		-					
112 12	1						

Z

Duk	e Drillin	ng Co	ompany, I	nč.	Daily	Drilling Reco	rd
	Great	Bend, I				05 57 - 70	,
	S ENDING AT M	an a	2		- 10 M	05-06 20 20 RIG NO.	·
WELL OWNER		1	and kidle a		boodland	WELL NO(Į_
SECTION_2		11P	RANGE 39	COUNTY	Sherman		<u> </u>
IF IN	JURED: SIGN A	ND DESC	RIBE INJURY UND	ER REMARKS		WE HAVE NOT BEEN INJURED TH	IS DAY
	LLED	FEET	FOR	MATION	420 HANT		
5767	5980	2/3	SA A.	Therest	DRILLER	Carlos Garrie 8	
	2100		an pris	11015	PRILER	a gailor marcha	
			Rul 25		DERRICKMAN	Eartailo horan à	
			5/2 2			T. 7	
			41 11 20		MOTORMAN	Javen Rooms "	-
			MS 4		HELPER	Deput Hours 8	
							2
					HELPER		_
DRILLING RUN NO.		CASING R	1.0. 4.54	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
SIZE	77/8	REMARKS	11.00-25		5767-5924	230-2-45 5.71	4
MAKE	1751 516	2.4	5 100 0	13 11 3424	5980		
SERIAL NO.	JN6941		7.				
SERIAL NO.	3-15 214	0.	1-	01 1/2	Cuan 3/4		
	88 12	Ula	1	S.X 14	Conn 14		
DRI	LLED	FEET		MATION	420 Mrt	CIAN	0
5980	6004	24	S.M. Trip.	-	DRILLER	Daul Garcia	8.
(0 						Nº Maria C	0
			S/24 1 Hull 15		DERRICKMAN	Nino Mario Garc	ia o
3			Mulli Seal 3	3	MOTORMAN	Ale Tandro Vazau	28
						A	0
			1		HELPER	Dominic R Kg2	0
13					HELPER		
DRILLING	BITS	CASING R	ECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	2	REMARKS	7.00 0.00		5980 - 6004	N 10 0	
SIZE	7718	10:3		rh frid	The second	:00 .2:00 ET.C.H	
MAKE	MS1516	2:00	10000	roy 55 #	T.O.H F/	1055	
SERIAL NO.	JN6941 3. U. 2-14						
H.O.Bit	91	Drig	212 Cir	3 Trip	21/2		
DRII	LLED	FEET		MATION		1	
- FROM	TO	FEET DRILLED	2.	209015	DRILLER	Rosendo pa la cruz	Po
Oor_	-#12 G	900	Dellard	999013	DRIELER	No serior Dy La Chur	1.0
					DERRICKMAN	Carlos Heimplez	8
		(P)				-	
	-				MOTORMAN V20	Exequiel De La ciu	2 2
			E		HELPER	Carlos cruz. &	
						Sarat Sarato S	
					HELPER		
DRILLING	BITS	CASING R		BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY 6029	DEGREES OFF
RUN NO. SIZE		REMARKS		30 TOH	1/103 4	30-1:15 RU KO	ager5
MAKE		115.	9th GIHV	Thogens f	sol 9:00 - 1	11:00 log	00
SERIAL NO.						0	
SERIAL NO.				1			
				1			

Duk	e Drilli	ng Co	ompany, Inc.	Daily	Drilling Record
	Great	Bend,			
	S ENDING AT M		7	0 11	05-05 20.20 RIG NO. 1
WELL OWNER	· .	<u> </u>		I was a second a loss of the second	WELL NO,
SECTION		IIP	RANGE3.4COUNTY	Shaman	STATE
IF IN	IJURED: SIGN A	ND DESC	RIBE INJURY UNDER REMARKS		WE HAVE NOT BEEN INJURED THIS DAY
DRI	ILLED TO	FEET	FORMATION	420 00	h
FKUM	10	DIRECED	5-14 110	DRILLER	Custos hurcia 8
			1		A 1 0
-			1 Trank day	DERRICKMAN	Turbuco horas
			1700 SU 360 MIW	MOTORMAN	Tana Runna S
	-		140 Must	MOTORMAN	CICHAILE PROPERTY
				HELPER	Daniel Flores 6 _ 1
			2300 16Law 40		1 I I I I I I I I I I I I I I I I I I I
DRILLING	DITS	0.00000		HELPER	DEFLECTION SURVEY DEGREES OFF
RUN NO.		CASING R		CEMENT USED	
SIZE		REMARKS		Receile Interiorde	5-12:30/01651.
MAKE			0 7:00 FIN	2:45-6:30	TOH W/ Look
SERIAL NO.		6.3	0 7-00 1/1		
SERIAL NO.					
			·		ř
FROM	TO	FEET	FORMATION	420 Mrt	CIA: A
5263	5480	157	S.M. Trips	DRILLER	Javi Garcia 8
			Car an		Nino Maria Garcia 8
-			Gel 20	DERRICKMAN	Nino Mario Garcia 8
			Lig	MOTORMAN	ALETANDER VAZQUES 8
2			Pre 14		N 2 0 0
			Exide Sgal	HELPER	Dominic K Kg2 D
	*		Mullised 1	HELPER	
DRILLING	G BITS	CASING R	ECORD: SIZE BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY DEGREES OFF
RUN NO.	2		7:00 -11:15 T.I.H.	BK Rix Fu	in 9 std. 11:15-12:00 CTC.
SIZE	7718			. 5420	city 1 210
MAKE	MSI SIG		org comp		
SERIAL NO.	JN 6941 2-14-3-15				
SERIAL NO. H.O. Rik	74 3/4	Dris	212 Trip 4114	Cona 1/2 C	18 3/4
DRI	LLED				
FROM	TO	FEET	FORMATION		2 1 2 4
5490	6767	347 651	S. Ia. Conh	DRILLER	Rosendo De La avez 8. 3
-		SH	1	DERRICKMAN	Carlos Heinadder &
		Court	02	420 Mit	
		Par	1/3	MOTORMAN	Exequier De La Cruz &
		Hull	10		
		Fyida	1 118	HELPER	Corlos Cruz D
		Mseal	2	HELPER	Sector Sector Sector
DRILLING		CASING R	ECORD: SIZE BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY DEGREES OFF
RUN NO.	2	REMARKS	3:00 - 2:30 Drip 541	23-5672	8:30 - 8:45 - So RIG
SIZE	7 7/8	2:45	-11:00 Dalg 5678 -	5767	
MAKE SERIAL NO.	JN 6941				
SERIAL NO.	9.14 3-15				
HO.R.	21119	Dris	63/4 Cappl	5. R	9 1/4

Duk			ompany, Inc.	Daily	Drilling Record
	Great S ENDING AT N	Bend, I			5-04 20 20 RIG NO.
WELL OWNER	A I			Gandlas	
	1		0.4	1. Maria	STATE
			RIBE INJURY UNDER REMARKS	H-L-IG N	WE HAVE NOT BEEN INJURED THIS DAY
	ILLED	FEET	FORMATION	410 1111	
FROM	то	DRILLED	S.M. TTIM	DRILLER	Carlos Carris S
				DRIELER	Sarro Olegrice
			05t#1	DERRICKMAN	Fritueis Garila 8
			5050-52.63	-	
		1	2	MOTORMAN	Larte Rainers &
	1			HELPER	Devel Charles 1
				Incer ex	10139277 - 1 - 12964 - Q
				HELPER	
DRILLING	G BITS	CASING R	ECORD: SIZE BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY DEGREES OFF
RUN NO.		REMARKS		30-41	30 TOHER DAT 1-1
IZE		4:30	-700 KU DAT TOO'S & TU	1 witras	13
ERIAL NO.					
ERIAL NO.					
DRI	ILLED	FEET	FORMATION	1	
FROM	то	FEET DRILLED			Sal Ania 8
* 1 f L			S.M. TELLS	DRILLER	Davi Garcia 8
			Lose Report @ 2717	420 MA	Nino Mario Garcia 8
			Mix How we 72 # Pull 13 st		
	-		HIT WE ARP HIT WE	MOTORMAN	ALEJANDRO VARAuce 8
			9512 Lit 0 3032 0K		D
			Cal-50 (5-2 5A-7 Lig-1/4) Pac-1/2 Hull-90 Poly Plus-1	HELPER	Dominic R Kgz 8
			Bull sed - 5	HELPER	
DRILLING	BITS	CASING R	ECORD: SIZE BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY DEGREES OFF
UN NO.		REMARKS	:7.00 8.45 for BKILD too	6 8:45	-19:00 TIHWIBIT Lose Revined
IZE		Contraction of the second		WON BACK	poside Mix Mud. the T.I.H.
		9 std	OTIMO		
ERIAL NO. ERIAL NO.					
LINE NO.	L.	Trip	5 4 Mix Mud 4		
DRI	LLED	1		420	
FROM	то	FEET	FORMATION	-	DIEL NO 9
	-		S. Mi TY'P:	DRILLER	Rosands pe Locact. U
				DERRICKMAN	Carlas Honorana 8
			D51 #2		Carlos Marcanico - CA
			5050-5263	MOTORMAN	Exequici De La CVUZ D
					8
			<u>\$</u>	HELPER	Carlos CYLE 0
				HELPER	7
DRILLING	BITS	CASING R	ECORD: SIZE BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY DEGREES OFF
UN NO.		REMARKS	and the second se	1.	500 - 530 . CTCH
ZE		20	700 Shot Mul and Buttom	74099	
AKE		G:30-	1 to Pick watna CEGA	il	
ERIAL NO.		1.000	and they apply a st		
ERIAL NO.		-1	inthe and		
		(1	POR CICIPY		

Duke	Drilling	Company,	Inc.
	Great Ben	id, Kansas	

Daily Drilling Record

		-			
EOD 2	4 HOURS	ENDING	AT M	DNICHT	
FOR Z		LINDING		DRIGHT	

TOWNSHIP

WELL OWNER

SECTION 21

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

×

RANGE

WE HAVE NOT BEEN INJURED THIS DAY

WELL NO ..

STATE

05-03 20 20 RIG NO. 1

	ILLED		1		
FROM	TO	FEET	FORMATION	420 4181	
4627	4910	283	S.M. Au Hard	DRILLER	Cuilos Gurcia 8
		1000	9.74 An 1.67.37	DRIELER	Carles Platera
			Rel 35		Turkerin Grani 8
		_		DERRICKMAN	LOSYACIO MORTIA
			Sic 2		TOO
			5/2 4	MOTORMAN	Javies Hanas &
			112 1/2		
			Phi 72	HELPER	Daniel Florer S
			11.11-10		
			147 5 7	HELPER	
DRILLING	BITS	CASING R	RECORD: SIZE BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY DEGREES OFF
RUN NO.	1		and the second	State of the second sec	
	77/8	REMARKS	: 1100 130 DUS EL 46.	27-47	31 1:30 2:00 S.L
SIZE		2:0	10 7:00 Dila 17 4731-	4910	
MAKE	MN 516				
SERIAL NO.	JN6941				
SERIAL NO.	375-2.4				
1103	64 3/4	Dila	612 Conal	5.2.12	
		1	CDR4 /	411-7-	
FROM	LLED TO	FEET	FORMATION		
4910	5120	210	S.M. Clean Pits	DRILLER	Saul Garcia 8
-1110	-120	UN 112	S.FL. LICAN PIAN		JAVI GARCIA 0
			1 1 0 0	420 Mrt	O
			Ge1 58	DERRICKMAN	NINO Mario Garcia 8
			SIN S.		
			c/s 2	MOTORMAN	ALETANDRO V92 0
			415 112		
			Pac	HELPER	Dominic R Rgz 8
-			Hall 20		and the second second
			Evide Stat	HELPER	
DRILLING	BITS				
Concernant and the		CASING R		CEMENT USED	DEFLECTION SURVEY DEGREES OFF
RUN NO.	7719	REMARKS	7:00-8:30 Drig @ 49	10 - 49	146 - 8:30 - 9:00 CFS. @491
SIZE	1 18	9:00	-10:30 Dig e 4948- 5011	10:3	0 - 11:00 S. Rig + clean Such
MAKE	HS: 516		-1:30Drls @ 3011 - 5120 -	1:30 - 3	
SERIAL NO.	JN 6941	11-0 0	1-1-100 ris @ 2011- 2120 -	1:20-2	:00 LES@ 5126
SERIAL NO.	3-15-2.14				<u>/</u>
H.O. Bit	69 3/4	Drif	5 Konn 1/2 Cir 2	S. Ri	s 1/2
III C. COL		+			
FROM	TO	FEET	FORMATION		~
SIGA	5263	143	S.M. Trip	DRILLER	Research Del- cruz P h
2160	2013	145	S.M. LY, F	DRILLER	BOSENDO DE LO CIUL I. U
					C . 11 . 1 8
				DERRICKMAN	Coulos Heypon Jude 2 D
		_			r 0
				MOTORMAN	Exequier De La crue D
				480	d
				HELPER	Carlos Cruze D
				HELPER	
DRILLING	BITS	CASING R	ECORD: SIZE BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY DEGREES OFF
RUN NO.	9				
1	7 3/8		:3:00 -4:15 Drig @ 5120	- 5160	4:15-5:30CFS @ 5180
SIZE		530-	145Dx195160-5963 7:1	45-8150	EFS3267 Bils- Mich Strip
MAKE	M31 316				
SERIAL NO.	JN 6941				
SERIAL NO.	3-15-2-14				
H.D. Bit	12/1	C	19 2/2 CF523/4 Short	tripplic	open la
	7214		you any opposite	- my	10
	A 10 - A 4				

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COUNTY

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Duk		ng Co	ompany, In	с.	Daily	Drilling Record	
FOR 24 HOUR	S ENDING AT M				(25-02 20 20 RIG NO. 1	
WELL OWNER	Accudia	00	exaling	LEASE G			
	TOWNSH		RANGE 39			STATE to 1	
			RIBE INJURY UNDER			WE HAVE NOT BEEN INJURED THIS DAY	
	ILLED	FEET FORMATION			420 MAI		
37/0	4070	360	S.M. Con	fe	DRILLER	Carlos hurcia 8	
					DERRICKMAN	Fortuin have 8	
			Stel				
		_	114/ 20		MOTORMAN	Jusine Hamos &	_
. <u> </u>	L.		plains 2		HELPER	Paniel 1/0162 8	
·					HELPER	AMMICI 170166 0	
	G				HELPER		
DRILLING	BITS	CASING R	ECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY 3578 DEGREES O	FF /
RUN NO.	2	REMARKS	11:00 1:00	Dilar/ 3	710 38	18 1-06-1:30 Sully	
SIZE	7 7/8	1.30	- 7:00 Dila	1/3818			
MAKE	M11516	1	5		00		
SERIAL NO.	315214						
SERIAL NO.	48	Dile	678	Connl	Survey 1	13	
	LLED				Sardey 1		
FROM	TO	FEET	FORMAT	N		C I O I O	
4070	4300	230	S.M. Trip		DRILLER	Jaul Garcia 8	_
			She I		420 Hot	Nino Mario Garcia 8	
		_	Huri G		DERRICKMAN	Nino Mario Garcia 8	_
			FIVIL 6		MOTORMAN	ALExandro Vazquez 8	
			Pull to sur.	P- In All	-	Den Con Con	
			Pull to Sur.	face bo std	HELPER	Dominic R Rf2 8	-
					HELPER		
DRILLING	BITS	CASING R	ECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY DEGREES O	FF
RUN NO.	2	REMARKS	7:00 - 8:30	Dr19 8 4070	- 4133.	8:30 -11:15 Wiper Trip	
SIZE	-7 718	11:15	- 11:45 - CT	C.H. 11:45.	- 3:00	Drig @ 4133 - 4300	
MAKE	HS1516 JN6941					1	
SERIAL NO.	3-15-2-14						
H.O. Bit	59	Dila	4 Conn	3/4 Trip 23/	4 0%	12	
	LLED				T	1	_
FROM	TO	FEET	FORMAT		-		
1300	4627	327		iking Chaik	DRILLER	Rosendo De La cure P. D	
•		GE SH	30		DERRICKMAN	Cala Harris 1 2 8	
		1:0	1		120 Mit	Carlos Hernounder D	_
		20	119		MOTORMAN	Frequiel De La CYUZ &	
		Coustic	1				
		Hulls	10		HELPER	Carlos Cruz &	
•			ou	1.0			
DRILLING	BITS	CASING R	Pits CLOCK # ECORD: SIZE	BOTTOMED AT	HELPER	DEFLECTION SURVEY 4479 DEGREES OF	- 31
RUN NO.	2			Dx: 9 4300		1 - 3.	
SIZE	7 7/2	REMARKS	9:20 -6.56	129-4573	9.7	6:36 - Tion Survey	_
MAKE	MS1 516	Q	1.50 119 49		102	1,43 ->-K14	
SERIAL NO.	518 6941	9:45	-11.00 Day &	1375 - 41	627	and the second se	
SERIAL NO.	216-8-14						

SERIAL NO.	E16- 8-14				14
HORY	32 to	Drighily	Com 1	S. Rig da	SUNDAY its
Party Brank and	/ -				

Duk		ng C	ompany,	Inc.		Daily	Drilling Record	1
FOR 24 HOUR	S ENDING AT M			. /		_	05 01 20 20 RIG NO.	1
	· Arcadia	Opt	w. ting	LE	ASE 6	pollan	WELL NO	
SECTION_2		1.00	RANGE	9 COUNTY_	SI	165MGA	STATE	4
		ND DESC		NDER REMARKS			WE HAVE NOT BEEN INJURED THIS D	YAY
FROM	TO	FEET	F	ORMATION		420 Mar		
2464	2874	410	S.M	PDF		DRILLER	Callos hurcia 8	
						DERRICKMAN	Estario Guerra 8	
	-0					NOTODWAN	8 0 7	
			Hulls 20			MOTORMAN	Jasice Kantos 9	
			adding and			HELPER	Duniel Tlours 8	
S		1						
	DITO					HELPER	AFILE	
DRILLING	2	CASING R	1.12	BOTTOMED AT	1 Alle il	EMENT USED		EGREES OFF
RUN NO. SIZE	77/8	REMARKS		On Dila TI	2.464	. 2590	2:00 2:15 Site	
MAKE	MSI SIG	dil	5-6:00	UUg Il a	1590-		6:00-6:15 Savas	×
SERIAL NO.	5N6941	6.15	5 - 7:00	D419 11 21	843 2	874		
SERIAL NO.	3-15 2-14		-					
1/03	29/2	Dila	6/2 Co	an 1	S.2 1	4	SULULY 14	2
	LLED	FEET	F	ORMATION				
282L	2347	DRILLED	010	1ch Point		DRILLER	Saul Garcia 8	
P-017	3341	112	0.00. 110			420 MH		
						DERRICKMAN	Nino Mario Garai	a 8
			Hull-11	0				100
						MOTORMAN	ALetandro Varque	2. 8
							D P Pas	0
	-					HELPER	Dominic R Kgz	0
			-7			HELPER	and the second second second	
DRILLING	BITS	CASING R	RECORD: SIZE	BOTTOMED AT		EMENT USED	DEFLECTION SURVEY 3341 D	EGREES OFF
RUN NO.	2	REMARKS	1:7:00 - 11:	30 Drig	0 2874	1 - 3158	- 11:30 . 12:00 . S.Ri	9
SIZE	7718	12:00	- 2:30 -	Drig e 3	1.58 -	3347.	2:30- 3:00. SULVEY 0.	3347
MAKE	H51516 JN6941			, j				
SERIAL NO.	3-15-2-14							
H.O.Bit	35	Drle	51/2 0	iona 112	S.Rie	1/2 30	siver 1/2	
	LLED	1						
FROM	TO	FEET		ORMATION	-	420 MIT		
	3710	363	S.M.	All Hore	1	DRILLER	Roschdo DC La CYUZ	P. B
		SH	40		_		and when a loss	2
•		1:9	10			DERRICKMAN	LOXIOS ACTIMONDEZ	4
		Rat	1			MOTORMAN	Exaquiel Dala Cour	8
		astic	4					
		Hulls	6			HELPER	Carlos avue &	
		M.S.W	2	and the second				
	BITE		Pits clase			HELPER		
DRILLING RUN NO.	9	CASING R	a / 1	BOTTOMED AT	2 2 1 1	EMENT USED	DEFLECTION SURVEY DI	EGREES OFF
SIZE	7 7/3	REMARKS	5:00-6-5	Drig (W)	1341	-5598	630-BD (Lean Dik	TION
MAKE	MSISIL	6.43	-845 D:	the endr	19 209	366	1 8:45-9:00 S.R.	9
SERIAL NO.	51 6941	2:00	-liso Drig	3661-3	710			
SERIAL NO.	3-15-9-14							
H.o.B.	411/2	Dris	6-1/2 C	sph 1	cle	41 Such	on 1/4 5. Rig 1/4	

Duke Drilling Company, Inc. Da						Drilling Recor	ď		
	Great	Bend, I							
FOR 24 HOUR	S ENDING AT M	1	~ 1	×	- 17	14.30 20 20 RIG NO.	(
WELL OWNER		\$14	para fing	- 1 I	30.00 (un	WELL NO.	*		
SECTION_2	TOWNSH	11P	RANGE9	COUNTY She	iMun	STATE	f		
IF IN	JURED: SIGN A	ND DESC	RIBE INJURY UNDER F	REMARKS		WE HAVE NOT BEEN INJURED THIS	S DAY		
	LLED	FEET	FORMAT	ON	4/20 MRI 2				
FROM 1090	1518	428	S.M Sam	V	DRILLER	Carlos havin 8			
		_	6.1 35		DERRICKMAN	Eustraio Russia S			
			S/1 5		MOTORMAN	Til Turner 8			
198 1	¢.		lis L'in		INCIONIAN	Little Journal o	_		
			Don 12 -		HELPER	Duniel Tlaur 8			
			11-11-5						
DRILLING	BITS	CASING R	ECORD: SIZE	BOTTOMED AT	HELPER	DEFLECTION SURVEY 1350	DEGREES OFF		
RUN NO.	2		172 2 4 4 2		- 1354	3:30-3:45 Survey	DEGREES OFF 7		
SIZE	7-7/8	REMARKS		1359-	-1539	5.30- 5245 Solvey			
MAKE DOL	SN 6941		1.00 0.1311	1227					
SERIAL NO.	MS1 516			Y.					
SERIAL NO.	315-2-14	Dula	63/4	Same 1/4	Conn 1.				
	LLED	2		and the contraction of the					
FROM	TO	FEET	FORMAT		420 Mrd	C I C I	0		
1518	1915	395		Reburns	DRILLER	Saul Garcia	0		
		<u>LEI</u>	10		DERRICKMAN	Nino Mario Gara	. 8		
		Coussie	1		DERRICIAMEN				
		Par	112		MOTORMAN	ALEJandro Vzgua	52 Y		
		1.2	1.112	· · · · · ·		O P P	8		
		Hulls	Lose 120 00)		HELPER	Dominic R Rgz			
		1:me		# 1 - 2 - 3	HELPER	a	1		
DRILLING	BITS	CASING R	ECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY 1864	DEGREES OFF 3/4		
RUN NO.	7718	REMARKS	7:00-11:30	Brig @ 1518	2 - 1864-	11:30 - 12:00 - SURV	'ey		
SIZE	HS1 516	12:00		· clean Such	ion 12:1	15 - 12:36 Dig e 1864 -	- 1913		
MAKE SERIAL NO.	IN 6941	12:45	- 3:00 Lose A	eturs T.O.H	5 340 \$	Mix Pill w/ 20#			
SERIAL NO.	3-15-2-14	<u> </u>							
H Bit	17 14	Drlg	5 Survey	12 S. Rig 1/4	Losel	hetning 21)4			
FROM	LLED TO	FEET	FORMAT	ON					
1913	2464	551	S.M. COMA		DRILLER	Roscudo De La cruz	P. S		
		GEL	4		DERRICKMAN	Carlos Hernandez			
3 -		SH	1		MOTORMAN	Examina De la ava	> 2		
	//_				Upp Mrt	ercrace pe co cus			
			1		HELPER	Carlos CYUZ B			
		-		#					
DRILLING	BITS	CASING R	ECORD: SIZE		HELPER CEMENT USED	DEFLECTION SURVEY 2369	DEGREES OFF 3/4		
RUN NO.	2	REMARKS	221	19 1015	2142	1. 1.1			
SIZE	7 2/2	L'IC	200-600 1	9148-236		6:00-6:15 5.R.9			
MAKE	M21516	9.20	- 1/ing hula		64	sources			
SERIAL NO.	TN 6941	1,20	-100 019	6-201 - 61					
SERIAL NO.	3.K.9.14 97	Drig	52/4 5014	10- 1/2	5.210	ily care 1 da			
-Red Mars	63	St.	2 2/7 DU10	St. III	- Jan J	11 COUR INE			

Dul		ng Co	ompany, Inc.	Daily	Drilling Record
FOR 24 HOUF	RS ENDING AT M	and the second			04 29 20 20 RIG NO1
WELL OWNE	RAICULIA	Opi	LEASE	Goodland	WELL NO
		HIP	RANGE 34 COUNTY	Shacman	STATE
-		AND DESC	CRIBE INJURY UNDER REMARKS		WE HAVE NOT BEEN INJURED THIS DAY
DR FROM	TO	FEET	FORMATION	420 10+	0 1 10 10
245	355	110		DRILLER	Carbs have 8
<u> </u>				DERRICKMAN	Entacio Giscia 8
ş <u>i</u>				MOTORMAN	Turn Rugers 8
*					D / F/ S
-				HELPER	Chemich Flater &
DRILLIN				HELPER	
RUN NO.		CASING R	14 12 12 12 1	CEMENT USED	DEFLECTION SURVEY 355 DEGREES OFF
SIZE	1294	REMARKS	8: 11:00 12.30 July 1	1245-35	5
MAKE	UBiel	12.30	0-12-45 61611 110	-4:30 Dun	Cre 4:30 -5:15 D. C68
SERIAL NO.	214237	145			as 7.30 -J. D'RU Crops
SERIAL NO.	3-15	Curr	110/ 5:15-7:00 h	N.C.	1.1 in a t
17013	3	Ce ia	neal 4/250 5x 60/40 34	Bec HE CF	did CIRC CEMEN
DR	ILLED TO	FEET	FORMATION	4,80 p. 4.	0
355			Sitt Test B.o.d.	DRILLER	Saul Garcia 8
				DERRICKMAN	Nino Mario Garcia 8
	t.				ALETandro Vazavez 8
2				MOTORMAN	in ce janaro vyzybec o
-				HELPER	Dominuc R R92 8
			Tert B.O.P 300 PS1		
-				HELPER	
DRILLING	G BITS	CASING R	14 II I	CEMENT USED	DEFLECTION SURVEY DEGREES OFF
RUN NO.		REMARKS	:7:00 2:15 W.O.C.	2:15-3:00	o - Only omt & plus.
MAKE		-			
SERIAL NO.					
SERIAL NO.					
	-				
	LLED	FEET	FORMATION		
	1090	DRILLED	Soll. Trip	DRILLER	Proch Baland P 2
	1070	1.71	20	DRILLER	NOZENDO YC GO CIUM F, D
		SH	2	DERRICKMAN	Coslas Hermonlez 2
		19	11/2	420 mit	
		Pac	1/2	MOTORMAN	Exequiel De La CYUZ &
		Hulls	28		
		Coundie	2	HELPER	Carles Crazenan &
-		Muld: S	Pits (1000 # 1- 8-3	HELPER	
DRILLING	BITS	CASING R		CEMENT USED	DEFLECTION SURVEY DEGREES OFF
RUN NO.	2	REMARKS	and the second s	359 Hipod	Pickal DACBit
SIZE	77/8	345-	to un t	19389-2	29 2-15 2:20 5 PV
MAKE POC	SN 6911	1.2.	- hand 1: 2 790 . 856	8.25 - 8-15	Sullar Kils-lling
SERIAL NO. SCA	5-15 0-14	Daiy	856 - 1090	2,10 - 4,10	
SERIAL NO.	8.1.			TRIP 3/4	a standardardar
100	2112	Drig	SHE CONNINY	1x17 3/9	Survey 1/ S.R.S. 1/4

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	ALC: NOT THE OWNER OF THE OWNER OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER OF THE OWNER	-	-					
5 1/2	Balo	511	19	can't dit	TX1P 3/4	Service 1	hi s.	RI
	1	~ 17	-					~

Dul	ke Drilli	ng Co	ompany, Inc.	Daily Drilling Record				
FOR 24 HOUF	RS ENDING AT M			04	- 28 20,20 RIG NO			
WELL OWNE	RA readu	a DAN	LEASE (mid land	WELL NO			
		1 100	RANGE 39 COUNTY 548		STATE 5			
· · · · · ·	*		RIBE INJURY UNDER REMARKS		WE HAVE NOT BEEN INJURED THIS DAY			
	ILLED	FEET	FORMATION	420 Mrt				
FROM	то	DRILLED		DRILLER	Culos Goria S			
1								
				DERRICKMAN	Easteria Garria 8			
				MOTORMAN	Janar Rands 8			
				HELPER	Dunial Ilouis 8			
DRILLIN	G BITS	CASING F		HELPER				
RUN NO.			The second of 11	CEMENT USED	DEFLECTION SURVEY DEGREES OFF			
SIZE		REMARKS	1.00- 2.00 W 6/ 100	31				
MAKE								
SERIAL NO.								
SERIAL NO.								
FROM	TO	FEET	FORMATION	410 Mirt	1			
				DRILLER	Squi Garcia In			
	1							
				DERRICKMAN	Nino Mario Garaie 12			
				MOTORMAN	Alegandro Varguez 12			
				HELPER	Dominic R RSZ 12			
				HELPER				
DRILLING RUN NO.	GBIIS	CASING R	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CEMENT USED	DEFLECTION SURVEY DEGREES OFF			
SIZE		REMARKS	: 700- 700 Wolands : Ri	9.4P				
MAKE								
SERIAL NO.		<u> </u>						
SERIAL NO.		<u> </u>						
DR	ILLED	FEET	FORMATION	410 M++				
FROM	1245	245		DRILLER	Rospudo Delacroz P. 12			
					and an an an an an an an			
			Gel 45	DERRICKMAN	Carlos Hermondez 12			
			Lim 1					
			Hull 15	MOTORMAN	Explain De Carrot 19			
				-	The second second second			
-			5and @ 8 30Am	HELPER	La alla alla alla alla alla alla alla a			
			27.00 6 0.00	HELPER	COLVIOS CVIZ 12			
DRILLING	BITS	CASING R	ECORD: SIZE BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY DEGREES OFF			
RUN NO.	1	REMARKS	11:00-700 RIJUP 2	100 - 830 A	-19 RHEMH			
SIZE	172/14	9302	WAYA I with I to half	no SerRI	10 1/2			
MAKE	714 239		,,					
SERIAL NO.	119 231							
SERIAL NO.	194	RIG	armispart & CONN-1	RH	MA 1/2 SerRig 1/2			
	1/2	1	CALLA V CALLA	117	tord the Dellas the			

Duke Drilling Company, Inc. Great Bend, Kansas					Daily Drilling Record				
FOR 24 HOUF	RS ENDING AT					1-27 2020 RIG N	0		
WELL OWNER	R Mull	(LEASE	Box 21 La	WELL NO.			
	· · · · · · · · · · · · · · · · · · ·		RANGE	COUNTY	Lank and	STATE			
			RIBE INJURY UND		10	WE HAVE NOT BEEN INJURED THIS DAY			
	ILLED	FEET	FOF	RMATION	360 mai				
FROM	TO	DRILLED			DRILLER	Culos havia 8			
•					DERRICKMAN	Europaio Garcia 8			
					MOTORMAN	Junes Runas 8			
					HELPER	Duncol Flores 8			
		1			HELPER				
DRILLIN	G BITS	CASING R	ECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF		
RUN NO.		REMARKS	1 1	17.			DEGREEG GIT		
SIZE		REMARKS	1041	sur cig					
MAKE									
SERIAL NO.									
SERIAL NO.									
		ļ							
FROM	TO	FEET	FOF	RMATION	360 mrt				
		DIRECED			DRILLER	Saul Garcia	8		
							~		
					DERRICKMAN	Nino Mario Garc	16 8		
							17		
		-			MOTORMAN	Ale Jandro Vazque	2 8		
						N P P	8		
					HELPER	Dominic R Kg2	0		
					HELPER				
DRILLING	G BITS	CASING R	ECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF		
RUN NO.			1 1	22 +	CEMENT DED	DEFLECTION SURVEY	DEGREES OFF		
SIZE		REMARKS	: Load o	er Kig.					
MAKE									
SERIAL NO.									
SERIAL NO.									
DRI	LLED	FFFT	FOR	MATION					
FROM	то	FEET DRILLED	FUR	MATION					
					DRILLER				
			1.1 8.5		DEBBICKMAN				
			Ten 1		DERRICKMAN				
			Butt 15		MOTORMAN				
		10							
					HELPER				
					HELPER				
DRILLING	BITS	CASING R	ECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF		
RUN NO.		REMARKS			1				
SIZE									
MAKE		-							
SERIAL NO.									
VERIAL NO.									