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Filed Date: 10/24/2025
State Corporation Commission
of Kansas

BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

In the matter of the application of Shakespeare Oil)	Docket No. 25-CONS-3411-CUIC
Company, Inc. for a permit to authorize injection)	
into the Whitehorse and Cedar Hills formations at)	CONSERVATION DIVISION
the Wells #2-27 well in Section 27, Township 16)	
South, Range 35 West, Wichita County, Kansas.)	License No. 7311

PRE-FILED TESTIMONY OF

TODD BRYANT

ON BEHALF OF COMMISSION STAFF

OCTOBER 24, 2025

- 1 Q. What is your name and business address?
- 2 A. Todd Bryant, 266 N. Main St. Wichita, KS 67202.
- 3 Q. By whom are you employed and in what capacity?
- 4 A. I am employed by the Conservation Division of the Kansas Corporation Commission (KCC
- or Commission), as Supervisor of the Production and Underground Injection Control (UIC)
- 6 Departments.
- 7 Q. Would you please briefly describe your educational background and work experience?
- 8 A. I received my Bachelor of Science in Geology from Wichita State University (WSU) in May
- 9 2017. Prior to that, I began working at the KCC in March 2012, as a Geology Intern while I
- was completing my studies at WSU. I was promoted to a Research Analyst in September
- 11 2014. I was again promoted to Geologist Specialist in September 2017, and most recently
- promoted to Supervisor of the Production and UIC Departments in July 2022.
- Q. What duties does your position with the Conservation Division involve?
- 14 A. I manage the Conservation Division's UIC and Production Departments. This includes
- providing technical support concerning various applications involving UIC wells. I enforce
- the Commission's UIC regulations through injection permitting, I perform file reviews of
- active injection wells, and I monitor daily injection volumes which are reported monthly
- from Harper and Sumner Counties.
- 19 Q. Have you previously testified before this Commission?
- 20 A. Yes.
- Q. What is the purpose of your testimony in this matter?
- 22 A. The purpose of my testimony is to inform the Commission about my review of the
- application for injection filed by Shakespeare Oil Company, Inc. (Operator), and to support

- 1 my recommendation that the Commission deny Operator's application for injection into the
- 2 Wells #2-27 well (Subject Well), API #15-203-20394 under permit D-34,567.

Q. What is Operator requesting in this docket?

- 4 A. The most recent application that Staff received from Operator for injection into the Subject
- Well was on March 17, 2025. That application requests injection into the Whitehorse and
- 6 Cedar Hills formations at a maximum rate of 500 barrels of water per day and maximum
- 7 surface pressure of 0 pounds per square inch (PSI).

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Q. Have there been inconsistencies in Operator's proposed injection?

A. Yes. Operator initially submitted an application to inject into the Subject Well on January 10, 2025. In that initial application, Operator indicated that it sought to inject into the Whitehorse formation at depths of 1452 to 1476 feet and 1522 to 1582 feet, as well as the Cedar Hills formation from 1800 to 2000 feet. Then, on March 17, 2025, Operator submitted an amended page one of its application. On the amended page, Operator indicated that it sought to inject into the Whitehorse formation at a depth of 1452 to 1476 feet, as well as the Cedar Hills formation from 1522 to 1582 feet and 1800 to 2000 feet. Next, in Operator's pre-filed direct testimony, Mr. Eck indicates that Operator seeks to inject into the Day Creek formation from 1452 to 1476 feet, the Whitehorse formation from 1522 to 1582 feet, and the Cedar Hills formation from 1800 to 2000 feet. However, Operator has not filed an amended application for injection into the Day Creek formation. The constant changing of formations from when the application was first filed to now is an indication to Staff that Operator really does not know what formations it is proposing to inject into. On top of that, it does not appear that Operator has provided all of the correct formations based on the perforation depths provided in the application.

- Q. What are the issues that cause Staff to recommend denial of Operator's application?
- 2 A. In my opinion, the application should be denied for a number of reasons. First, the Subject
- Well is perforated above the minimum injection depth established by Table II causing the
- 4 well to be a current threat to usable water in the area. Second, even if the well was
- 5 perforated into Permian formations, there are a lack of confining layers between Operator's
- 6 proposed injection zones and usable water. Lastly, Operator has not provided sufficient
- 7 notice of it application.
 - Q. Did Operator contact Staff about its application prior to conducting work on the
- 9 **Subject Well?**

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- 10 A. No. The daily reports attached to Mr. Kenny Sullivan's testimony as Exhibit KS-2 indicate
- Operator perforated the Subject Well between December 18 and December 30, 2025.
- Operator did not notify Staff of its intention to inject into the Subject Well until it filed its
- application a few weeks later on January 10, 2025. By the time Operator's Application was
- filed it had already completed and perforated the Subject Well into usable water.
 - Q. Are operators able to obtain approval for their injection wells prior to conducting the
- work on a proposed injection well?
- 17 A. Yes, pursuant to K.A.R. 82-3-401(e) each applicant desiring design approval shall place the
- words "design approval" at the top of the application for injection operations. Under the
- permitting factors of K.A.R. 82-3-403(g) if the application requests design approval,
- approval of the design of the proposed well may be obtained before actual construction of
- 21 the well. These regulations allow operators to submit an injection application for design
- approval to UIC Staff prior to completing the wells construction. This allows Staff to review
- 23 the application and make sure there are no issues and it allows operators to avoid the costs

- 1 of constructing a well in a manner that will be rejected by Staff. However, as I testified 2 above, Operator did not communicate with Staff or submit an application for design 3 approval prior to conducting work on the Subject Well. If Operator had communicated with 4 Staff, then this situation may have been avoided.
- 5 Q. Please explain the steps you took to determine whether Operator's application should 6 be approved.

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- 7 A. The KCC requirements for any injection well are listed in K.A.R 82-3-401 though K.A.R. 8 82-3-412. I will go into more depth regarding each of these steps below; however, I will first generally discuss the steps Staff took in reviewing the Operator's application to see whether 10 permitting the Subject Well for injection would be appropriate. First, Staff reviews whether the Subject Well met all KCC well construction requirements for this area. Second, Staff 12 reviews the valid completion documentation for the Subject Well to ensure the well was 13 completed in accordance with KCC regulations. Third, Staff reviews the proposed zone of 14 injection for the Subject Well to ensure that it was compatible with the proposed injection 15 operation for the area. Fourth, Staff conducts an Area of Review (AOR) to check for 16 possible environmental concerns due to nearby wells. An AOR is a review of known wells 17 within a quarter mile of a proposed injection well to see if any threat to fresh and usable 18 water is present once an operator's proposed injection of fluids is introduced. Fifth, Staff 19 reviews the application to determine whether proper notice of the application was given.
 - Q. Please describe your review of the surface and production casing depth in the Subject Well.
- 22 A. The Subject Well is located in Wichita County which, pursuant to Table I of the 23 Commission's Order on general rules and regulations for the conservation of crude oil and

natural gas in Docket No. 34,780-C, requires injection wells to protect through the Dakota formation plus 20 feet into the underlying formation except where known local areas of usable water occur in the Cheyenne sandstone, in which case, protection must be extended 20 feet into the Permian. Table I provides that two options are available: (1) set through the Dakota plus 20 feet into the underlying formation or 20 feet into the Permian if specifically designated or (2) set through all unconsolidated material plus 20 feet into the underlying formation and cement the production string from a point 20 feet below the base of the Dakota or 20 feet below the base of the Cheyenne, if specifically designated, to the surface. In all instances, casing shall be set through all unconsolidated material plus 20 feet into the underlying formation. I have attached a copy of the Intent to Drill (C-1) form submitted by Operator to my testimony as *Exhibit TB-1*. The C-1 form provided by Operator indicates that the base of usable water is 1520 feet. Additionally, I have attached a copy of the Well Completion (ACO-1) form to my testimony as *Exhibit TB-2*. The ACO-1 indicates that the Subject Well has surface casing set to 237 feet with 170 sacks of cement used. The production casing in the Subject Well is set to 2500 feet with 390 sacks of cement used.

Q. Please describe the proposed zone of injection for the Subject Wells.

Table II provides depths that are the absolute minimum depth at which injection could be permitted. However, Table II also provides that depths greater than those given may be required for some areas. For Wichita County, Table II provides a minimum depth that is the top of "Red Beds". At the Subject Well the top of Red Beds means the top of the Permian formation. Operator is proposing to use the Subject Well to inject produced water into what it alleges is the Whitehorse formation at a depth of 1452 feet to 1476 feet and the Cedar Hills formation at a depth of 1522 feet to 1582 feet and 1800 feet to 2000 feet. Here, there is

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¹ K.A.R. 82-3-405; K.A.R. 82-3-406; K.A.R. 82-3-407.

an issue because the upper perforations on the injection application are above the top of usable water that operator provided on its ACO-1 form, 1520 feet. Mr. Eck's testimony indicates that the upper perforations in the Subject Well are in the Day Creek Dolomite formation. However, the KGS website describes the Day Creek Dolomite as a single bed, typically about two feet thick, of fine-grained, dense dolomite, overlain and ordinarily underlain by gray shales.² This description seems inconsistent with the evidence collected by Staff.

Injection into the perforations identified in the application presents a threat to the quality of usable water within the Dakota Aquifer System and Jurassic System due to demonstrated local and regional hydraulic connectivity. Furthermore, the presence of unpredictable fracture zones, even where direct communication is not evident, poses an elevated risk of fluid migration into fresh and usable water bearing formations. Staff has collected samples from the Subject Well which also show that the Subject Well has been perforated above the top of the Permian formation and is a present danger to usable water. The threat Operator's perforation poses to usable water and the collection of formation samples from the Subject Well is covered in greater detail in Mr. Sullivan's testimony. After the sample from the Subject Well was collected by District #1 Staff, Mr. Sullivan brought the sample to me in order to conduct various tests on the sample.

Q. How would you describe the sample?

A. Mr. Sullivan discusses it in greater detail, but the sample appeared to be gritty and a lighter colored sand.

² https://www.kgs.ku.edu/Publications/Bulletins/34/05_strat.html.

Q. What tests did you conduct on the Subject Well sample that was brought to you by

District #1 Staff?

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A. On October 9, 2025, I took the sample to the Geology Department at Wichita State University to review the material under a microscope and to see how the sample interacted with hydrogen chloride (HCl). Under the microscope, the sample appeared to be a well sorted, fine grained sand. I have attached a copy of pictures that I took of the sample through a microscope to my testimony as *Exhibit TB-3*. Additionally, when I placed droplets of HCl on the sample there was little to no effervescence. If the sample was from a dolomite, then it would have effervesced or fizzed when it interacted with the HCl. I have attached a video of when I placed HCl droplets on the sample to my testimony as *Exhibit TB-4*. Based on what I viewed under the microscope and how the sample interacted with HCl, the formation sample from the Subject Well is clearly not dolomitic and would not be from the Day Creek formation. The sample is consistent with sandstone that would have been deposited above the Permian formation. On October 20, 2025, I also traveled to the Kansas Geological Society sample library in Wichita to compare the sample to other formations. I shared the samples that I gathered with Mr. Sullivan which is discussed in greater detail in his testimony.

Q. Please describe your review of the requested rate and pressure.

A. The Operator has requested to inject 500 barrels of produced water per day into the Subject Well at a pressure of 0 PSI. However, at the Subject Well there is a lack of sufficient confining layers above the injection perforations as the Subject Well is perforated above Table II depth. Additionally, there is a lack of confining layers between the Permian and usable water as Mr. Sullivan references in his testimony.

- 1 Q. Please walk us through the Area of Review (AOR) you conducted.
- 2 A. I used information from the Kansas Geological Survey (KGS) and the Commission's Risk
- Based Data Management System (RBDMS) to conduct an AOR of one-quarter mile around
- 4 the Subject Well to check for possible environmental concerns due to nearby wells. Within
- 5 the one-quarter mile radius of the Subject Well there are zero plugged and abandoned wells,
- 6 zero producing oil wells, no potentially unplugged wells, no temporarily abandoned wells,
- 7 and no active saltwater disposal wells.
- 8 Q. Did the Operator provide proper notice of the Application?
- 9 A. No. Operator's application was initially received by Staff on January 10, 2025. Then Staff
- received an amended page one of the application on March 17, 2025. That is evidenced by
- the date stamps on each page of the application. To date, an affidavit of publication for
- Operator's Application has not been received by Staff. Additionally, based on the testimony
- provided it does not appear that sufficient notice has been provided to each offset operator
- or lessee of record within a one-half mile radius, each unleased mineral owner within a one-
- half mile radius, and the landowner for the formations the Subject Well would inject into.
- Q. Have you read and reviewed the testimony filed on behalf of Operator in this docket?
- 17 A. Yes. I have read through and reviewed the testimony filed by Mr. Andrew Eck, Mr. Don
- Williams, and Mr. Jeff Scarbrough.
- 19 Q. On page 3, lines 16 through 17 of Mr. Eck's testimony, he references logs that he used
- 20 to form a cross section. Do you think his cross section should be considered persuasive?
- A. No. Generally, cross sections are in straight lines across a certain area and are used to show
- trends in the subsurface. Mr. Eck instead tries to correlate logs on a line that zigzags back
- and forth and even crosses back over itself. I have never seen a cross section depicted in

- such a manner, and I am uncertain that any valuable information can be ascertained from his
- 2 Exhibit 3 based on how the cross section is depicted and given the knowledge that the
- formation depths listed have been misidentified or are inconsistent.
- 4 Q. On page 4, line 9 through page 5 line 1 of his testimony, Mr. Eck testifies that there are
- 5 sufficient confining layers above the injection interval. Do you agree with his
- 6 testimony?
- 7 A. No, I do not agree that there are sufficient confining layers above the proposed injection
- 8 interval. As stated multiple times by Mr. Sullivan and I, the Subject Well is perforated
- 9 above the minimum depth established by Table II. Even if the Subject Well was perforated
- below Table II depth, I share Mr. Sullivan's concerns regarding the sufficiency of the
- 11 confining layers above Operator's injection. The operator's top perforations are located
- within the lower portion of the Dockum Group or the Entrada Sandstone, as part of the
- Morrison Formation. This interval is characterized by massive beds of white, friable, very
- fine- to medium-grained, extensively cross-bedded sandstone, interbedded with thin,
- discontinuous layers of shale and siltstone. The Morrison Formation generally comprises
- shale, sandstone, and limestone, with minor occurrences of chert and anhydrite.
- 17 Furthermore, the Permian interval exhibits elevated formation pressures and evidence of
- natural and unpredictable fracturing. These conditions provide a conduit for fluids from the
- 19 Permian to migrate upward into zones containing usable water.
- 20 Q. Next, let's discuss the testimony provided by Mr. Scarbrough. On page 2, lines 16
- 21 through 24 of his testimony, Mr. Scarbrough discusses water samples taken by
- 22 ChampionX Corporation. Do you believe those samples are credible?

- 1 A. Not particularly. Water samples have no bearing on the Subject Well being perforated above 2 fresh and usable water. The Subject Well was perforated in December 2024, but the water in 3 the Subject Well was not tested until April 2025. This delay in testing from completion 4 resulted in three to four months of cross contamination, which is not going to lead to true 5 and accurate results. The threat this well presents is to the Dakota System. Mr. Sullivan 6 discusses that threat in greater detail in his testimony. The Dakota System consists of The 7 Dakota formation, the Kiowa formation, and the Cheyenne formation. These formations are considered to be fractured and in communication with one another. There are no sufficient 8 9 confining layers between Operator's proposed injection and the Dakota System.
- Q. On page 3, lines 16 through 22 of his testimony, Mr. Scarbrough references his Exhibit
 4 which includes 25 wells that are permitted for injection into the Whitehorse and/or
 Day Creek formations. Do you have any comments regarding these wells?
- 13 A. Yes. The Day Creek wells were permitted prior to Table II existing and the Whitehorse
 14 wells in District #1 were permitted prior to my time here as supervisor. There are also some
 15 wells which have been permitted in District #4, but the geology in that district is different
 16 than what is found in District #1.
- Q. Have any injection wells been permitted for the Whitehorse and or Day Creek formations in District #1 since you became Supervisor of the UIC Department?
- A. No. There was an application for injection into the Whitehorse formation which was submitted in 2023 by Hartman Oil. However, that application was denied by Staff due to the elevated risk the well posed to fresh and usable water resources. Hartman Oil did not protest Staff's denial and instead recompleted the well for injection into a lower formation, the Cedar Hills. Mr. Sullivan also references this denial in his testimony.

Q. Do you believe that the Subject Well is perforated in the Day Creek, Whitehorse, and

2 Cedar Hills formations?

A. No. I do not believe that the well is perforated in the Day Creek or the Cedar Hills. Based on the information and evidence available, I believe that the upper perforations of the Subject Well from 1452 to 1476 feet are located in the Morrison Formation, that the middle perforations from 1522 to 1582 feet are located at the top of the Permian Red Beds, and that the lower perforations from 1800 to 2000 feet are located in the Blaine formation.

Q. Have you consulted with other KCC geologists regarding Operator's application?

A. Yes. During the review of this application, I consulted with multiple KCC staff members to obtain their independent evaluations of the formation tops for the Subject Well. Mr. Sullivan discusses his findings in his testimony, but there is an overwhelming consensus that Operator's formation calls are incorrect and that the Subject Well is perforated above the minimum depth established by Table II. While the KCC Staff interpretations varied slightly, all were within a reasonable range of one another.

For example, Mr. Jake Eastes, who is a Professional Geologist with the KCC, provided additional information that I found to be useful in an email that he sent to me. I have attached a copy of his email to my testimony as *Exhibit TB-5*. His email noted that the perforations from 1452 to 1476 feet are not within the Whitehorse or Day Creek formations, but rather within a sand zone at the base of the Morrison or Jurassic-aged rocks. The email also noted that the perforations from 1522 to 1582 feet are most likely within the Whitehorse Formation, although one interpretation places this interval just within the top of the Permian, with the Whitehorse top occurring near 1600 feet. Mr. Eastes' email identified the perforations from 1800 to 2000 feet as being clearly within the Blaine Formation, with

1 the Density/Neutron/PE Log a halite/salt response throughout the perforated interval. Lastly, 2 his email noted that the Cedar Hills Formation in the Subject Well appears thinner than in 3 other areas of western and southwestern Kansas, with the top identified at approximately 4 2,075 feet and the base at 2,155 feet. 5 Q. Based on your review of this Application, do you believe permitting the Subject Well 6 for the enhanced recovery of oil will potentially pollute the water resources of the State 7 of Kansas? 8 A. Yes. The completion records for the Subject Well show that there is an adequate amount of 9 surface casing and cement to comply with Table I. However, based on the information 10 available, it appears that the well is perforated above the minimum depth established by 11 Table II and there is a lack of sufficient confining layers between Operator's injection and 12 the fresh and usable water resources in the area. The Subject Well presents an extremely 13 high risk to the usable water in this area especially when considering the information Mr. 14 Sullivan references in is testimony regarding the status of the Ogallala aquifer in the area of 15 the Subject Well. 16 Q. Based on your review of this Application, do you believe granting the Application will cause waste? 17 18 A. Mr. Williams alleges that waste will occur if Operator's Application is denied. However, 19 approval of the application as submitted poses a substantial threat to the usable waters of the 20 Dakota Aquifer System. The protection of the aquifer outweighs any potential waste 21 associated with denial of the application. Operator has numerous alternative formations 22 available for the injection of produced water, including the Altamont, Council Grove,

Lancing, Lecompton, Kansas City, Marmaton, Mississippian, Oread, Shawnee, Tecumseh,

- Topeka, and Toronto formations, all of which are at or above the total depth to which the well was drilled. This means that Operator has the ability and option to recomplete the Subject Well or drill a new injection well which properly protects usable water and would also prevent the waste it alleges. Operator elected to complete the well in its current configuration to reduce costs, a decision that does not justify the increased risk of waste or potential endangerment to usable groundwater resources.
- Q. Based on your review of this Application, do you believe granting the Application will violate anyone's correlative rights?
- 9 A. No.
- Q. Do you have a recommendation regarding whether the Commission should approve the Operator's Application?
- 12 A. Yes. Operator's application as it currently is filed should be denied, and Commission Staff 13 is opposed to this application being granted. Other formations in the area are more suitable 14 for injection than those proposed by Operator. Operator's Application for the Subject Well 15 is insufficient because the well is completed above the minimum depth established by Table 16 II. Further, I concur with Mr. Sullivan's testimony that any injection into the Whitehorse 17 formation from 1522 to 1582 feet will also impact usable water due to the lack of confining 18 layers and based on the knowledge that there are fractures in the formations which allow 19 Permian fluids to seep upwards into usable water. Lastly, it does not appear that Operator 20 has sufficiently provided notice of its application.
- Q. Does this conclude your testimony at this time?
- 22 A. Yes.

KOLAR Document ID: 1798888

For KCC Use:
Effective Date:
District #
CA2 Vos No

Kansas Corporation Commission Oil & Gas Conservation Division

Form C-1

March 2010

Form must be Typed

Form must be Signed

All blanks must be Filled

NOTICE OF INTENT TO DRILL

Expected Spud Date:	Spot Description:
OPERATOR: License#	
lame:	
ddress 1:	Is SECTION: Regular Irregular?
ddress 2: + State: Zip: +	,
contact Person:	County.
hone:	Lease Name: Well #:
ONTRACTOR: License#	Field Name: Is this a Prorated / Spaced Field? Yes N
ame:	is time a restated, spassa resta
	Nearest Lease or unit boundary line (in footage):
Well Drilled For: Well Class: Type Equipment:	Ground Surface Elevation:feet MS
Oil Enh Rec Infield Mud Rotary	Water well within one-quarter mile:
Gas Storage Pool Ext. Air Rotary Disposal Wildcat Cable	Public water supply well within one mile:
Disposal Wildcat Cable Seismic : # of Holes Other	Depth to bottom of fresh water:
Other:	Depth to bottom of usable water:
	Surface Pipe by Alternate: I II
If OWWO: old well information as follows:	Length of Surface Pipe Planned to be set:
Operator:	Length of Conductor Pipe (if any):
Well Name:	Designate of Total Departs
Original Completion Date: Original Total Depth:	Formation at Total Depth:
	Water Source for Drilling Operations:
irectional, Deviated or Horizontal wellbore?	Well Farm Pond Other:
Yes, true vertical depth:	DWR Permit #:
ottom Hole Location:	- (Note: Apply for Permit with DWR)
.CC DK1 #	- Will Cores be taken? Yes
	If Yes, proposed zone:
AF	
	If Yes, proposed zone:
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he undersigned hereby affirms that the drilling, completion and eventual p	If Yes, proposed zone:
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Signature of Operator or Agent:

Exhibit TB-1 Page 1 of 6

KOLAR Document ID: 1798888

Side Two

For KCC Use ONLY	
API # 15	_

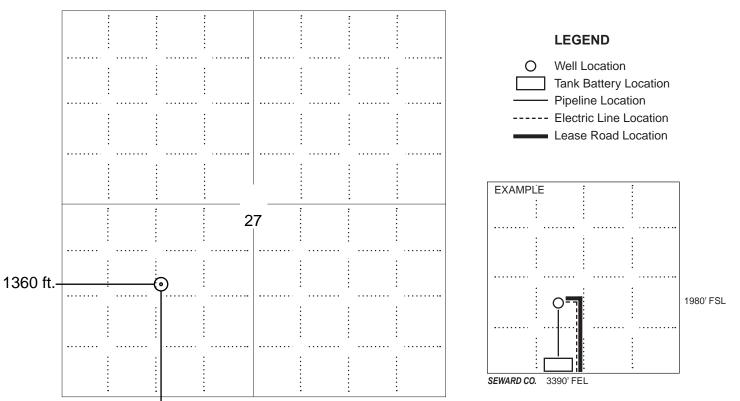
IN ALL CASES PLOT THE INTENDED WELL ON THE PLAT BELOW

In all cases, please fully complete this side of the form. Include items 1 through 5 at the bottom of this page.

Operator:	Location of Well: County:
Lease:	feet from N / S Line of Section
Well Number:	feet from E / W Line of Section
Field:	Sec Twp S. R 🗌 E 🔲 W
Number of Acres attributable to well:	Is Section: Regular or Irregular
	If Section is Irregular, locate well from nearest corner boundary. Section corner used: NE NW SE SW

PLAT

Show location of the well. Show footage to the nearest lease or unit boundary line. Show the predicted locations of lease roads, tank batteries, pipelines and electrical lines, as required by the Kansas Surface Owner Notice Act (House Bill 2032). You may attach a separate plat if desired.



NOTE: In all cases locate the spot of the proposed drilling locaton.

1540 ft.

In plotting the proposed location of the well, you must show:

- 1. The manner in which you are using the depicted plat by identifying section lines, i.e. 1 section, 1 section with 8 surrounding sections, 4 sections, etc.
- 2. The distance of the proposed drilling location from the south / north and east / west outside section lines.
- 3. The distance to the nearest lease or unit boundary line (in footage).
- 4. If proposed location is located within a prorated or spaced field a certificate of acreage attribution plat must be attached: (C0-7 for oil wells; CG-8 for gas wells).
- 5. The predicted locations of lease roads, tank batteries, pipelines, and electrical lines.

Kansas Corporation Commission Oil & Gas Conservation Division

Form CDP-1 May 2010 Form must be Typed

APPLICATION FOR SURFACE PIT

Submit in Duplicate

Operator Name:			License Number:			
Operator Address:						
Contact Person:			Phone Number:			
Lease Name & Well No.:		Pit Location (QQQQ):				
Type of Pit:	Pit is:					
Emergency Pit Burn Pit	Proposed	Existing	SecTwp R			
Settling Pit Drilling Pit	If Existing, date cor	nstructed:	Feet from North / South Line of Section			
Workover Pit Haul-Off Pit (If WP Supply API No. or Year Drilled)	Pit capacity:	(111)	Feet from East / West Line of Section			
		(bbls)	County			
Is the pit located in a Sensitive Ground Water A	rea? Yes I	No	Chloride concentration: mg/l (For Emergency Pits and Settling Pits only)			
Is the bottom below ground level? Yes No	Artificial Liner?	lo	How is the pit lined if a plastic liner is not used?			
Pit dimensions (all but working pits):	Length (fee	et)	Width (feet) N/A: Steel Pits			
Depth fro	om ground level to dee	pest point:	(feet) No Pit			
If the pit is lined give a brief description of the li material, thickness and installation procedure.	nei		dures for periodic maintenance and determining cluding any special monitoring.			
Distance to nearest water well within one-mile of	of pit:	Depth to shallow Source of inforr	west fresh water feet.			
feet Depth of water well	feet	measured	well owner electric log KDWR			
Emergency, Settling and Burn Pits ONLY:		Drilling, Worko	ver and Haul-Off Pits ONLY:			
Producing Formation:		Type of materia	l utilized in drilling/workover:			
Number of producing wells on lease:		Number of work	king pits to be utilized:			
Barrels of fluid produced daily:		Abandonment p	procedure:			
Does the slope from the tank battery allow all s flow into the pit? Yes No	pilled fluids to	Drill pits must b	e closed within 365 days of spud date.			
	-					
Submitted Electronically						
	КСС	OFFICE USE OF	NLY Liner Steel Pit RFAC RFAS			
Date Received: Permit Numl	ber:	Permi				

KOLAR Document ID: 1798888

Kansas Corporation Commission Oil & Gas Conservation Division

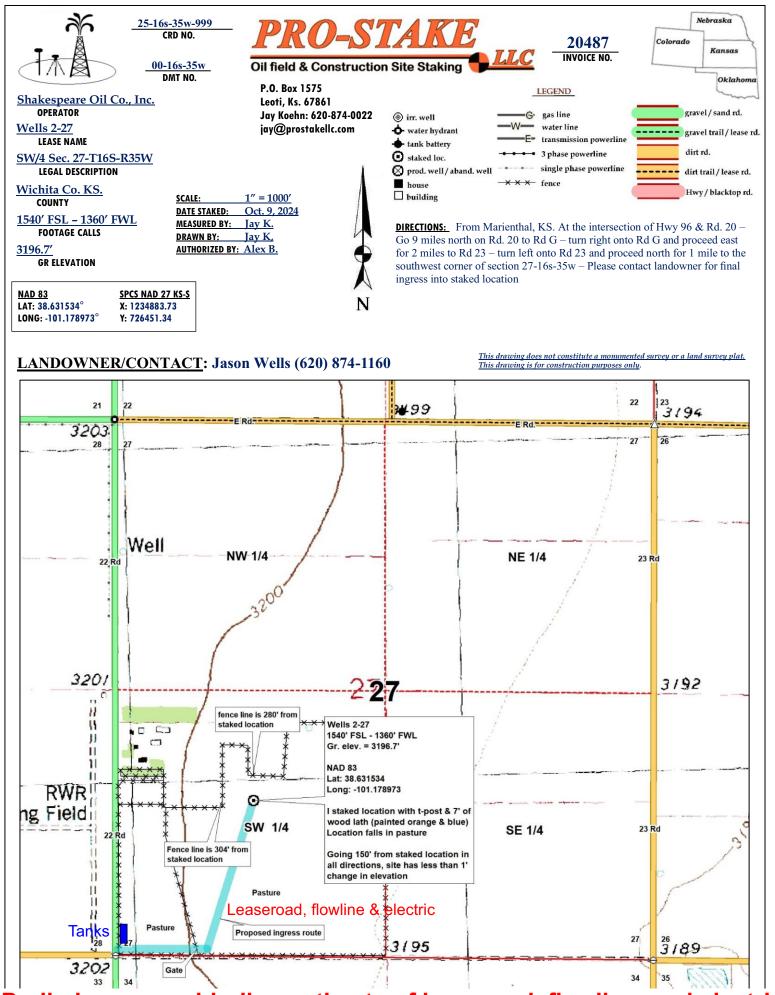
Form KSONA-1
July 2021
Form Must Be Typed
Form must be Signed
All blanks must be Filled

CERTIFICATION OF COMPLIANCE WITH THE KANSAS SURFACE OWNER NOTIFICATION ACT

This form must be submitted with all Forms C-1 (Notice of Intent to Drill); CB-1 (Cathodic Protection Borehole Intent); T-1 (Request for Change of Operator Transfer of Injection or Surface Pit Permit); and CP-1 (Well Plugging Application).

Any such form submitted without an accompanying Form KSONA-1 will be returned.

Select the corresponding form being filed: C-1 (Intent) CB-1	(Cathodic Protection Borehole Intent) T-1 (Transfer) CP-1 (Plugging Application)
OPERATOR: License #	Well Location:
Name:	SecTwpS. R East _ West
Address 1:	County:
Address 2:	Lease Name: Well #:
City:	If filing a Form T-1 for multiple wells on a lease, enter the legal description of
Contact Person:	the lease below:
Phone: () Fax: ()	
Email Address:	
Surface Owner Information:	
Name:	When filing a Form T-1 involving multiple surface owners, attach an additional
Address 1:	sheet listing all of the information to the left for each surface owner. Surface owner information can be found in the records of the register of deeds for the
Address 2:	county, and in the real estate property tax records of the county treasurer.
City: State: Zip:+	
the KCC with a plat showing the predicted locations of lease roads, tar are preliminary non-binding estimates. The locations may be entered of	odic Protection Borehole Intent), you must supply the surface owners and had batteries, pipelines, and electrical lines. The locations shown on the plat on the Form C-1 plat, Form CB-1 plat, or a separate plat may be submitted.
provided the following to the surface owner(s) of the land upon C-1, Form CB-1, Form T-1, or Form CP-1 that I am filling C-1 or Form CB-1, the plat(s) required by this form; and 3) my I have not provided this information to the surface owner(s). The KCC will be required to send this information to the surface.	e Act (see Chapter 55 of the Kansas Statutes Annotated), I have upon which the subject well is or will be located: 1) a copy of the ng in connection with this form; 2) if the form being filed is a Form of operator name, address, phone number, fax, and email address. I acknowledge that, because I have not provided this information, ce owner(s). To mitigate the additional cost of the KCC performing dress of the surface owner by filling out the top section of this form to the KCC, which is enclosed with this form.
If choosing the second option, submit payment of the \$30.00 handling form and the associated Form C-1, Form CB-1, Form T-1, or Form CF	g fee with this form. If the fee is not received with this form, the KSONA-1 P-1 will be returned.
Submitted Electronically	
I	_



Preliminary, non-binding estimate of leaseroad, flowline, particle lectric

Conservation Division 266 N. Main St., Ste. 220 Wichita, KS 67202-1513



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Laura Kelly, Governor

Andrew J. French, Chairperson Dwight D. Keen, Commissioner Annie Kuether, Commissioner

October 22, 2024

Toby Eck Shakespeare Oil Co., Inc. 202 W MAIN ST SALEM, IL 62881-1519

Re: Drilling Pit Application Wells 2-27 SW/4 Sec.27-16S-35W Wichita County, Kansas

Dear Toby Eck:

District staff has inspected the above referenced location and has determined that the reserve pit shall be constructed <u>without slots</u>, the bottom shall be flat and reasonably level, and the free fluids must be removed. The fluids are to be removed from the reserve pit within 96 hours of completion of drilling operations.

If production casing is set all completion fluids shall be removed from the working pits daily. NO completion fluids or non-exempt wastes shall be placed in the reserve pit.

The fluids should be taken to an authorized disposal well. Please call the District Office at (620) 682-7933 when the fluids have been removed. Please file form CDP-5 (August 2008), Exploration and Production Waste Transfer, through KOLAR within 30 days of fluid removal.

A copy of this letter should be posted in the doghouse along with the approved Intent to **Drill**. If you have any questions or concerns please feel free to contact the District Office at (620) 682-7933.

KOLAR Document ID: 1809174

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

Name:	Spot Description:
Addrson 1:	•
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	Datum: NAD27 NAD83 WGS84
Wellsite Geologist:	County:
Purchaser:	,
Designate Type of Completion:	Lease Name: Well #:
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:
☐ Oil ☐ WSW ☐ SWD	Producing Formation:
☐ Gas ☐ DH ☐ EOR	Elevation: Ground: Kelly Bushing:
☐ OG ☐ GSW	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? Yes No
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 □ Plug Back □ Liner □ Conv. to GSW □ Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content:ppm Fluid volume: bbls
Dual Completion Permit #:	Dewatering method used:
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	QuarterSecTwpS. R East West
Recompletion Date 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: Exhil Pate 8-2
Page 1 of 69

KOLAR Document ID: 1809174

Page Two

Operator Name:				Lease Name	e:			Well #:	
Sec Twp	S. R	Eas	t West	County:					
INSTRUCTIONS: Show open and closed, flowing and flow rates if gas to su	and shut-in urface test, a	pressures, who along with final	ether shut-in pre chart(s). Attach	essure reached extra sheet if m	static nore s	level, hydrostat space is needed	ic pressures, l.	bottom hole tempe	erature, fluid recovery,
Final Radioactivity Log, F files must be submitted in						s must be ema	ied to kcc-we	ell-logs @ kcc.ks.gov	. Digital electronic log
Drill Stem Tests Taken (Attach Additional She	ets)		∕es		_ Lo	g Formatio	n (Top), Dept	th and Datum	Sample
Samples Sent to Geologi	ical Survey		∕es □ No		Name			Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud L List All E. Logs Run:	_ogs		/es □ No /es □ No /es □ No						
		Rep	CASING ort all strings set-	RECORD	New		on, etc.		
Purpose of String	Size Hole		ze Casing	Weight	,	Setting	Type of	# Sacks	Type and Percent
rulpose of String	Drilled	Se	et (In O.D.)	Lbs. / Ft.		Depth	Cement	Used	Additives
			ADDITIONAL	CEMENTING /	SQUE	EZE RECORD			
Purpose:	Depth Top Botto		e of Cement	# Sacks Used	d		Туре а	and Percent Additives	
Perforate Protect Casing	.op Botto	,,,,							
Plug Back TD									
Plug Off Zone									
Did you perform a hydrau	ilic fracturing tr	reatment on this	well?			Yes	No (If No	o, skip questions 2 an	d 3)
2. Does the volume of the to	_			t exceed 350,000	gallon			o, skip question 3)	,
3. Was the hydraulic fracturi	ing treatment i	information subm	itted to the chemic	al disclosure regis	stry?	Yes	No (If No	o, fill out Page Three o	of the ACO-1)
Date of first Production/Inje	ction or Resun	ned Production/	Producing Meth	nod:					
Injection:			Flowing	Pumping	G	as Lift O	ther (Explain) _		
Estimated Production	Oil	Bbls.	Gas	Mcf	Water	Bb	ols.	Gas-Oil Ratio	Gravity
Per 24 Hours									
DISPOSITION	OF GAS:			METHOD OF COM	MPLET	TON:		PRODUCTIO	N INTERVAL:
Vented Sold	Used on L	Lease	Open Hole		ually C		mingled	Тор	Bottom
(If vented, Submit				(St	ubmit A		nit ACO-4)		
Ohata Darr		Doufourtion	Duides Dive	Deider Dhan		A -:-I		0	Danasid
	oration op	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At		Acid,		Cementing Squeeze Kind of Material Used)	necora
TUBING RECORD:	Size:	Set At:		Packer At:					

Exhibit TB-2 Page 2 of 69

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	WELLS 2-27
Doc ID	1809174

All Electric Logs Run

Dual Induction/GR
Compensated Neutron
Compensated Density
Microlog

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	WELLS 2-27
Doc ID	1809174

Tops

Name	Тор	Datum
Base Anhydrite	2203	+701
Heebner	3897	-782
Lansing	4032	-826
Muncie Creek	4103	-998
Stark Shale	4205	-1093
Hushpuckney	4236	-1140
Marmaton	4453	-1247
Pawnee	4526	-1320
L. Cherokee Shale	4608	-1402
Mississippian	4808	-1602

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	WELLS 2-27
Doc ID	1809174

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	237	Class A		2% gel, 3% cc
Production	7.875	5.5	15.5	2500	SMD	390	1/4# sx flocele



P. O. Box 466 Ness City, KS 67560 Off: 785-798-2300



DATE	INVOICE #	
11/6/2024	37161	

\mathbf{D}	_	

Shakespeare Oil Company, Inc 202 West Main Street Salem, IL 62881



- **Acidizing**
- Cement
- Tool Rental

TERMS	Well N	No. Lease County Contractor Well Ty					І Туре	w	ell Category	Job Purpose	Operator
Net 30	#2-27	Wells		Wichita	Duke Drlg	Oil	D	evelopment	Surface Pipe	Gideon	
PRICE	REF.			DESCRIPT	ION		QTY	′	UM	UNIT PRICE	AMOUNT
575D 576D-S 325 279 278 290 276 581D 583D		Mileage - 1 Wa Pump Charge - Standard Ceme Bentonite Gel Calcium Chlori D-Air Flocele Service Charge Drayage Subtotal Sales Tax Wich	Shall nt de Ceme	ow Surface (< :		All Control	100000	90 1 175 7 8 2 50	Miles Job Sacks Sack(s) Sack(s) Gallon(s) Lb(s) Sacks Ton Miles	8.00 1,250.00 17.50 30.00 55.00 45.00 2.00 1.00 8.50%	720.00 1,250.00 3,062.50T 210.00T 440.00T 90.00T 200.00T 350.00 774.00 7,096.50 340.21
					P. C. C. C.	Last See			1		

We Appreciate Your Business!

Total

\$7,436.71





CHARGE TO:	Shakespeare	01	Co	
ADDRESS				
CITY, STATE, Z	IP CODE)		

TICKET 37161

Service	s, Inc.			CITY	, SIAI	E, ZIP CODE	<i>y</i>						1	1	bit TB-
SERVICE LOCATIONS 1. Vess	C.ty.KS	WELL/PROJE	7		LEASE	Wells	COUNTY/PARISH Wichita	STATI	E CITY	NCe			DATE 0	WNER	Exhit Page
2.		TICKET TYPE SERVICE SALES		ACTOR			RIG NAME/NO.	SHIPPE VIA	DELIVERE	DTO			ORDER NO.		
3.		WELL TYPE		u se	WELL	CATEGORY JOB	PURPOSE	G	WELL PE).		WELL LOCATION		
4.	1011	011			_1	Developmen	Surface T	ipe					Pence, 6-	W. 1/2	-5
REFERRAL LOCAT	ION .	INVOICE INST	RUCTI	ONS					13			y ir	E-INTO		
PRICE REFERENCE	SECONDARY R		LOC	COUNTIN	_	DESCRIP	PTION		QTY.	U/M	QTY.	I I/M	UNIT PRICE	AMOUN	т
575			1			MILEAGE True	k #115	2	<u> </u>	0/111	40	Mi	200	780	00
5765			,			2 41	c - Surface				. 1	30	1,26000	1,250	00
												1			
325				*		STANDARD (CEMENT				175	sks	17 50	3062	50
279			1			BENTONITE GIE	1				7	sts	3000	210	00
278	1		1		_	CAlcium Ch	brick		1		8	sks	55 œ	440	8
290			ï			D-AiR				0	2	gal	45 00	90	00
276			1		-	Flocely					50	bs	400	200	000
			+									-			<u> </u>
581			1			CEMENT SE	ervice Cha	Rge	I		175	sks	2 99.	350	00
583			1			Drayage			17,200	165	774		1 00	774	90
LEGAL TERMS: the terms and con but are not limited	ditions on the rev	erse side here	of whic	h include	e,	REMIT PAYN	MENT TO:	OUR EQUIPMENT PER WITHOUT BREAKDOW WE UNDERSTOOD AN	RFORMED VN?	AGREE	UNDECIDED	DISAGRE	PAGE TOTAL	7096	50
LIMITED WARRA		nellase, ii	NDEIVII	iii i, aii	_	SWIFT SERV	ICES, INC.	MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOU					-		l I
MUST BE SIGNED BY C START OF WORK OR D		MER'S AGENT PRI	OR TO			P.O. BO		WE OPERATED THE B AND PERFORMED JO CALCULATIONS					Wichita	242	ln I
X						NESS CITY,	KS 67560	SATISFACTORILY?					Wama	340	121
DATE SIGNED	2024	ME SIGNED		A.M. P.M.		785-798	-2300	ARE YOU SATISFIED V	CUSTOMER DID	/ES	□ NO H TO RESPON	ND	TOTAL	1436	11
	CUSTOME	R ACCEPTAN	NCE OF			AND SERVICES The cu	istomer hereby ackn	owledges receip	t of the mat	erials a	nd service	es liste	ed on this ticket.	, , , ,	
SWIFT OPERATOR	Dide	on Fi	uch	A	PPRO'	VAL		d .			1		T	hank Yo	ı!

SWIFT Services. Inc. TICKET NO. JOB LOG Surface Pipe CUSTOMER WELL NO. Shakespeare Oil Co 2-27 PRESSURE (PSI) RATE (BPM) VOLUME (BBL) (GAL) PUMPS DESCRIPTION OF OPERATION AND MATERIALS CHART TIME CASING TUBING 85/8" 2316/f6 ON LOCATION 12030 RTD: 237 Begin 856" Csg in Well 2130 Break Circulation 2230 250 Pump 5 bbl HaO Spacer 2240 Mix 175 sks of STANDARD 42 125 Begin Displacement 250 A Circulate CMT to Surface # KO Pump 2300 Wash up Truck #115 Job Complete 2315 2346 StanDARd CEMENT W

DATE

PAGE NO.

Exhibit TB-2 Page 8 of 69



P. O. Box 466

Ness City, KS 67560

Off: 785-798-2300

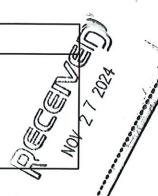


Invoice

DATE	INVOICE #
11/19/2024	37167

BILL TO

Shakespeare Oil Company, Inc 202 West Main Street Salem, IL 62881



- Acidizing
- Cement
- Tool Rental

					/			1									
TERMS	Well No	. Lease	County	Contractor	We	II Type	w	ell Category	Job Purpos	e	Operator						
Net 30	#2-27	Wells	Wichita	Duke Drlg Rig #4	S	WD	Development		Development		Development		WD Deve		Long String	<u> </u>	Gideon
PRICE R	REF.		DESCRIPT	ION		QTY	′	ИМ	UNIT PRICE		AMOUNT						
575D 579D 330 276 281 221 290 581D 583D	P S F M L D S D	Mileage - 1 Way Jump Charge - Two- wift Multi-Density in locele Mud Flush iquid KCL (Clayfix D-Air ervice Charge Ceme Drayage ubtotal WD &/Or InJection	Standard (MID)	3-5 4			1 450 125 500 2 8 450		8.00 2,400.00 24.00 4.00 2.50 25.00 45.00 2.00 1.00		720.00 2,400.00 10,800.00T 500.00T 1,250.00T 50.00 360.00T 900.00 2,021.00 19,001.00 0.00						

We Appreciate Your Business!

Total

\$19,001.00



CHARGE TO:	Shakespeare	011	Co	
ADDRESS				
CITY, STATE,	ZIP CODE			

TICKET 37167

Services				CITY,	STAT	E, ZIP CODE							PAGE 1	OF 1	ibit TB-2 10 of 69
SERVICE LOCATIONS 1. Ness Cong	KS	WELL/PROJE	フ		LEASE	Wells	COUNTY/PARISH			NCE			DATE 11/19/2024	WNER	Exhib
3.		SERVICE SALES	CONTR	RACTOR	SE		RIG NAME/NO. #4	SHIPPEI VIA	_ 1	RED TO			ORDER NO.		
4. REFERRAL LOCATIO	NA.	WELL TYPE SWD				CATEGORY J	OB PURPOSE LONG String		WELL P	PERMIT	NO.		WELL LOCATION PENCE, 6-4	1.1/2-5	
		INVOICE INST											E-INTO		
REFERENCE	SECONDARY R PART NU		LOC	ACCT	DF	DESC	RIPTION	^	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOU	NT
575			1		\vdash	MILEAGE Truc	k #115				90	MI	800	720	00.
579	·				H	Pump Cha	Rge - Top to	BOTTOM		·		306	2,400 00	2,400	,00
330						Swift Mul	Ei-Density	CEMENT			450	sks	24 00	10,80	
276 281		-	1		\vdash	Flocele				1	125	16s	4 00	500	
221			1		\vdash	Mun Flush	2					gal	2 50.	1.250	~
290						D-AIR				1	2	gAl	20	50	
0.10						PHIK					8	gal	45 00	360	
581						CEMENT SE	Cha				1100		200	0.00	00
583						Drayage	crice Char		44,906	1160	450 2021	SKS	2 2 2	900	00
LEGAL TERMS: Of the terms and conditional but are not limited	itions on the rev	erse side here	of whic	h include,			YMENT TO:	SUR\ OUR EQUIPMENT PERI WITHOUT BREAKDOW! WE UNDERSTOOD AN	/EY FORMED N?	AGREE			-	19.00	00
LIMITED WARRAN	ITY provisions.					SWIFT SER	VICES, INC.	MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOU							ı
MUST BE SIGNED BY CUS START OF WORK OR DEL		MER'S AGENT PRIC	OR TO			a managed and an arranged	OX 466	WE OPERATED THE EGAND PERFORMED JOE CALCULATIONS	QUIPMENT				TAX	4	-
DATE SIGNED	TIM	AE SIGNED			4		', KS 67560	SATISFACTORILY? ARE YOU SATISFIED WI							_
11/19/2		NE SIGNED		A.M. P.M.	_		8-2300		USTOMER D		ISH TO RESPO		TOTAL	19001	in
SWIFT OPERATOR	Siden	H ACCEPTAN	ICE OF		PROV		customer hereby ackn	owledges receipt	of the ma	aterials	and servic	es list		hank Yo	<u>и!</u>

SWIFT Services. Inc. JOB LOG 11/19/2024 TICKET NO. CUSTOMER JOB TYPE WELL NO. Long String Shakespeare Oil Co Wells 2-27 PRESSURE (PSI)
TUBING CASING RATE (BPM) VOLUME (BBL) (GAL) **PUMPS** CHART DESCRIPTION OF OPERATION AND MATERIALS TIME T C 5%" 15/b/f6 LOCATION 1700 55:42.63 TP: 2.503' 1845 Shoe BY SET PKR reulate Addhowal to MINUTES 2000 400 Pump 500 gal Muo Flush -1 2020 12 Pump 20 bbl KCL Spacer 20 4 Plug RH +MY 2035 Aug 400 Mix 1905ks of SMD@ 11.2ppg 2050 300 Mix 200 sks of SMD @12.0 ppg 300 Mix 50 sks of SMD@13.0 ppg WASH Pump + Lives Release LATCH DOWN Plug 2130 2135 * CIRCULATE CMT to 58 2145 Wash up Truck #115 2200 Job Complet 2230 Dsks Circulated to lean Preston, Jos Exhibit TB-2

DATE

Page 11 of 69

PAGE NO.



Prepared For: Shakespeare Oil Company Inc

202 W Main St Salem IL 62881+1519

ATTN: Kent Matson

Wells #2-27

27-16S-35W Wichita KS

Start Date: 2024.11.11 @ 18:55:00 End Date: 2024.11.12 @ 01:17:32 Job Ticket #: 72451 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.11.20 @ 11:18:58



Shakespeare Oil Company Inc

Wells #2-27

Job Ticket: 72451

Reference Elevations:

DST#: 1

ATTN: Kent Matson

Salem IL 62881+1519

202 W Main St

Test Start: 2024.11.11 @ 18:55:00

27-16S-35W Wichita KS

GENERAL INFORMATION:

Formation: Lecomp/Oread

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 21:19:32 Tester: Spencer J Staab
Time Test Ended: 01:17:32 Unit No: 75

Interval: 3864.00 ft (KB) To 3940.00 ft (KB) (TVD)

Total Depth: 3940.00 ft (KB) (TVD)

3196.00 ft (CF)

3206.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8875 Inside

Press@RunDepth: 77.49 psig @ 3868.00 ft (KB) Capacity: psig

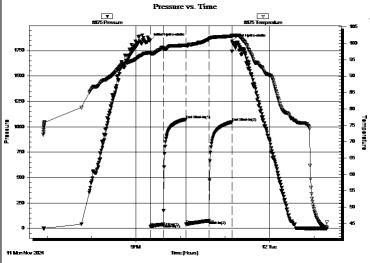
 Start Date:
 2024.11.11
 End Date:
 2024.11.12
 Last Calib.:
 2024.11.12

 Start Time:
 18:55:01
 End Time:
 01:17:32
 Time On Btm:
 2024.11.11 @ 21:19:21

Time Off Btm: 2024.11.11 @ 23:09:22

TEST COMMENT: 15-IF-Surface to 4.75"

30-ISI-No Return 30-FF-Surface to 6.25" 30-FSI-No Return



L				
1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1851.51	97.23	Initial Hydro-static
	1	16.57	96.73	Open To Flow (1)
	18	40.89	98.39	Shut-ln(1)
	49	1074.16	99.43	End Shut-In(1)
	49	42.12	99.23	Open To Flow (2)
	80	77.49	101.41	Shut-In(2)
	110	1046.05	102.23	End Shut-In(2)
	111	1840.18	102.35	Final Hydro-static
١				

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
80.00	Oil Spotted Mud 100%M	1.13

Gas Rat	es	
Choke (inches)	Pressure (neig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc Ref. No: 72451 Printed: 2024.11.20 @ 11:18:58



Shakespeare Oil Company Inc

27-16S-35W Wichita KS

Wells #2-27

Job Ticket: 72451

DST#: 1

ATTN: Kent Matson

Salem IL 62881+1519

202 W Main St

Test Start: 2024.11.11 @ 18:55:00

GENERAL INFORMATION:

Formation: Lecomp/Oread

Deviated: Whipstock: No ft (KB)

Test Type: Conventional Bottom Hole (Initial) Time Tool Opened: 21:19:32 Tester: Spencer J Staab Time Test Ended: 01:17:32 75

Unit No:

Interval: 3864.00 ft (KB) To 3940.00 ft (KB) (TVD) Reference ⊟evations: 3206.00 ft (KB)

Total Depth: 3940.00 ft (KB) (TVD) 3196.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 6838 Inside

Press@RunDepth: 3868.00 ft (KB) psig @ Capacity: psig

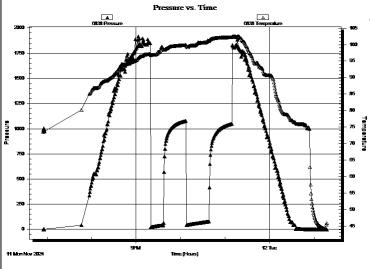
Start Date: 2024.11.11 End Date: 2024.11.12 Last Calib.: 2024.11.12

Start Time: 18:55:01 End Time: Time On Btm: 01:17:32

Time Off Btm:

TEST COMMENT: 15-IF-Surface to 4.75"

30-ISI-No Return 30-FF-Surface to 6.25" 30-FSI-No Return



PRESSURE SUM	MΑ	RY
--------------	----	----

-	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
Temperature				

Recovery

Length (ft)	Description	Volume (bbl)
80.00	Oil Spotted Mud 100%M	1.13

Gas Rates

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

Trilobite Testing, Inc Ref. No: 72451 Printed: 2024.11.20 @ 11:18:58



TOOL DIAGRAM

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St Salem IL 62881+1519 Wells #2-27

Job Ticket: 72451

DST#: 1

ATTN: Kent Matson

Test Start: 2024.11.11 @ 18:55:00

Tool Information

Drill Collar:

Drill Pipe: Length: 3864.00 ft Diameter: Heavy Wt. Pipe: Length: ft Diameter:

3.82 inches Volume:
2.75 inches Volume:
2.25 inches Volume:

Total Volume:

54.77 bbl Tool Weight: 2500.00 lb
- bbl Weight set on Packer: 25000.00 lb
0.00 bbl Weight to Pull Loose: 62000.00 lb

Drill Pipe Above KB: 32.00 ft

Length:

- bbl Tool Chased f

Depth to Top Packer: 3864.00 ft

String Weight: Initial 60000.00 lb Final 60000.00 lb

Depth to Bottom Packer: ft
Interval betw een Packers: 76.00 ft
Tool Length: 108.00 ft

108.00 ft 2 Diameter: 6.75 inches

0.00 ft Diameter:

Tool Comments:

Number of Packers:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3833.00		
Shut In Tool	5.00			3838.00		
Hydraulic tool	5.00			3843.00		
Jars	5.00			3848.00		
Gap Sub	4.00			3852.00		
Safety Joint	3.00			3855.00		
Packer	5.00			3860.00	32.00	Bottom Of Top Packer
Packer	4.00			3864.00		
Stubb	1.00			3865.00		
Perforations	2.00			3867.00		
Change Over Sub	1.00			3868.00		
Recorder	0.00	6838	Inside	3868.00		
Recorder	0.00	8875	Inside	3868.00		
Drill Pipe	63.00			3931.00		
Change Over Sub	1.00			3932.00		
Perforations	5.00			3937.00		
Bullnose	3.00			3940.00	76.00	Bottom Packers & Anchor

Total Tool Length: 108.00

Trilobite Testing, Inc Ref. No: 72451 Printed: 2024.11.20 @ 11:18:59



FLUID SUMMARY

deg API

ppm

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St Salem IL 62881+1519 Wells #2-27

Job Ticket: 72451

DST#: 1

ATTN: Kent Matson

Test Start: 2024.11.11 @ 18:55:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:Mud Weight:9.00 lb/galCushion Length:ftWater Salinity:

Viscosity: 56.00 sec/qt Cushion Volume: bbl

Water Loss: 5.78 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 8200.00 ppm Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl	
80.00	Oil Spotted Mud 100%M	1.134	

Total Length: 80.00 ft Total Volume: 1.134 bbl

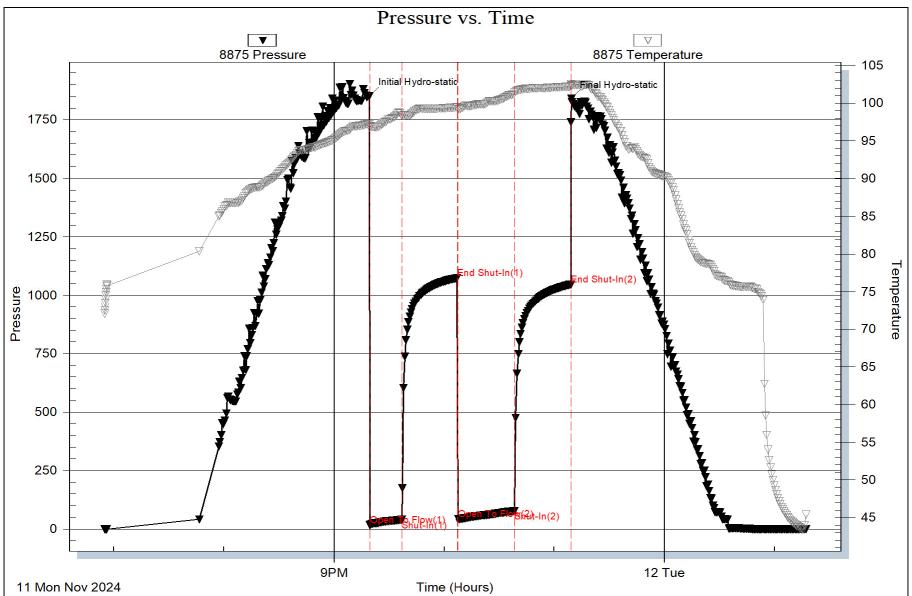
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 2#LCM

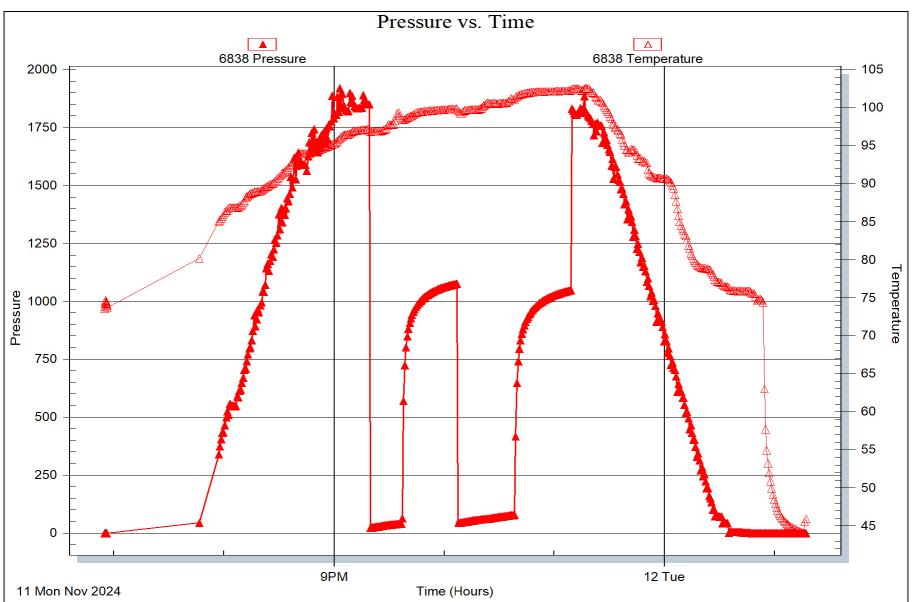
Trilobite Testing, Inc Ref. No: 72451 Printed: 2024.11.20 @ 11:18:59

Shakespeare Oil Company Inc Serial #: 8875 Inside Wells #2-27 DST Test Number: 1



Trilobite Testing, Inc Printed: 2024.11.20 @ 11:18:59 Ref. No: 72451

Shakespeare Oil Company Inc Serial #: 6838 Inside Wells #2-27 DST Test Number: 1



Trilobite Testing, Inc Printed: 2024.11.20 @ 11:18:59 Ref. No: 72451



Prepared For: Shakespeare Oil Company Inc

202 W Main St Salem IL 62881+1519

ATTN: Kent Matson

Wells #2-27

27-16S-35W Wichita KS

Start Date: 2024.11.12 @ 15:36:00 End Date: 2024.11.12 @ 21:41:52 Job Ticket #: 72452 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.11.20 @ 11:13:24



Shakespeare Oil Company Inc

27-16S-35W Wichita KS

Wells #2-27

Job Ticket: 72452

DST#: 2

ATTN: Kent Matson

Salem IL 62881+1519

202 W Main St

Test Start: 2024.11.12 @ 15:36:00

GENERAL INFORMATION:

Formation: Tor-LKC A

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Reset) No ft (KB)

Time Tool Opened: 17:36:47 Tester: Spencer J Staab 75

Time Test Ended: 21:41:52 Unit No:

Interval: 3984.00 ft (KB) To 4050.00 ft (KB) (TVD) Reference Elevations: 3206.00 ft (KB)

4050.00 ft (KB) (TVD) 3196.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8875 Inside

Total Depth:

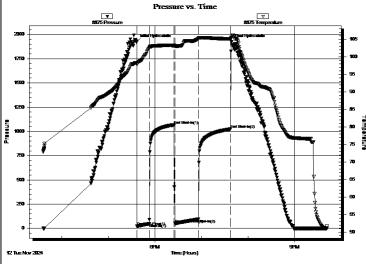
Press@RunDepth: 3988.00 ft (KB) 94.88 psig @ Capacity: psig

Start Date: 2024.11.12 End Date: 2024.11.12 Last Calib.: 2024.11.12 Start Time: 15:36:01 End Time: 21:41:52 Time On Btm: 2024.11.12 @ 17:36:37

Time Off Btm: 2024.11.12 @ 19:38:27

TEST COMMENT: 15-IF-Surface to 5.75"

30-ISI-No Return 30-FF-Surface to 8" 40-FSI-No Return



	PRESSURE SUMMARY				
Ī	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
	0	1926.82	98.31	Initial Hydro-static	
	1	21.49	97.82	Open To Flow (1)	
	17	48.30	102.67	Shut-In(1)	
	49	1067.57	103.25	End Shut-In(1)	
=	50	50.92	103.09	Open To Flow (2)	
Temperatura	80	94.88	105.28	Shut-In(2)	
=	122	1025.19	105.20	End Shut-In(2)	
	122	1925.84	105.42	Final Hydro-static	

Recovery

Length (ft)	Description	Volume (bbl)			
70.00	WCM 15%W 85%M	0.99			
60.00	SWCM 5%W 95%M	0.85			
40.00	Mud w /oil spots (tarry) 100%M	0.57			
* Recovery from multiple tests					

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

Ref. No: 72452 Printed: 2024.11.20 @ 11:13:24 Trilobite Testing, Inc



Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St Salem IL 62881+1519 Wells #2-27 Job Ticket: 72452

DST#: 2

ATTN: Kent Matson

Test Start: 2024.11.12 @ 15:36:00

GENERAL INFORMATION:

Formation: Tor-LKC A

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Reset) No ft (KB)

Time Tool Opened: 17:36:47 Time Test Ended: 21:41:52 Tester: 75

Spencer J Staab

Unit No:

Interval: 3984.00 ft (KB) To 4050.00 ft (KB) (TVD) Reference Elevations:

3206.00 ft (KB) 3196.00 ft (CF)

Total Depth: 4050.00 ft (KB) (TVD)

10.00 ft

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF:

Serial #: 6838 Press@RunDepth: Inside

3988.00 ft (KB) psig @

Capacity: Last Calib.: psig

Start Date: 2024.11.12 End Date: 2024.11.12

Time On Btm:

2024.11.12

Start Time:

15:36:01

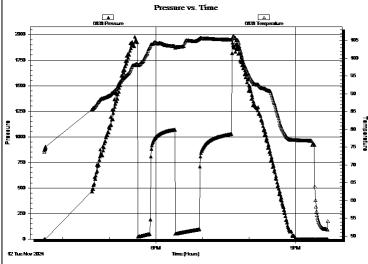
End Time:

21:41:52

Time Off Btm:

TEST COMMENT: 15-IF-Surface to 5.75"

30-ISI-No Return 30-FF-Surface to 8" 40-FSI-No Return



PRESSURE SUMMARY

	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
,				
Townson in				

Recovery

Length (ft)	Length (ft) Description				
70.00	WCM 15%W 85%M	0.99			
60.00	SWCM 5%W 95%M	0.85			
40.00	Mud w /oil spots (tarry) 100%M	0.57			
* Recovery from multiple tests					

Gas Rates

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



TOOL DIAGRAM

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St Salem IL 62881+1519 Wells #2-27

Job Ticket: 72452

DST#: 2

ATTN: Kent Matson

Test Start: 2024.11.12 @ 15:36:00

Tool Information

Drill Pipe: Length: 3961.00 ft Diameter: 3.82 inches Volume: 56.15 bbl
Heavy Wt. Pipe: Length: ft Diameter: 2.75 inches Volume: - bbl
Drill Collar: Length: 0.00 ft Diameter: 2.25 inches Volume: 0.00 bbl
Total Volume: - bbl

Tool Weight: 2500.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 61000.00 lb

Drill Pipe Above KB: 9.00 ft
Depth to Top Packer: 3984.00 ft

Tool Chased ft String Weight: Initial 60000.00 lb

Depth to Bottom Packer: ft Interval between Packers: 66.00 ft

Final 60000.00 lb

Tool Length: 98.00 ft
Number of Packers: 2

2 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3953.00		
Shut In Tool	5.00			3958.00		
Hydraulic tool	5.00			3963.00		
Jars	5.00			3968.00		
Gap Sub	4.00			3972.00		
Safety Joint	3.00			3975.00		
Packer	5.00			3980.00	32.00	Bottom Of Top Packer
Packer	4.00			3984.00		
Stubb	1.00			3985.00		
Perforations	2.00			3987.00		
Change Over Sub	1.00			3988.00		
Recorder	0.00	6838	Inside	3988.00		
Recorder	0.00	8875	Inside	3988.00		
Drill Pipe	32.00			4020.00		
Change Over Sub	1.00			4021.00		
Perforations	26.00			4047.00		
Bullnose	3.00			4050.00	66.00	Bottom Packers & Anchor

Total Tool Length: 98.00



FLUID SUMMARY

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St Salem IL 62881+1519 Wells #2-27

Job Ticket: 72452

DST#: 2

ATTN: Kent Matson

Test Start: 2024.11.12 @ 15:36:00

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: 41000 ppm

Viscosity: 54.00 sec/qt Cushion Volume: bbl

Water Loss: 9.98 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 9100.00 ppm Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	WCM 15%W 85%M	0.992
60.00	SWCM 5%W 95%M	0.851
40.00	Mud w /oil spots (tarry) 100%M	0.567

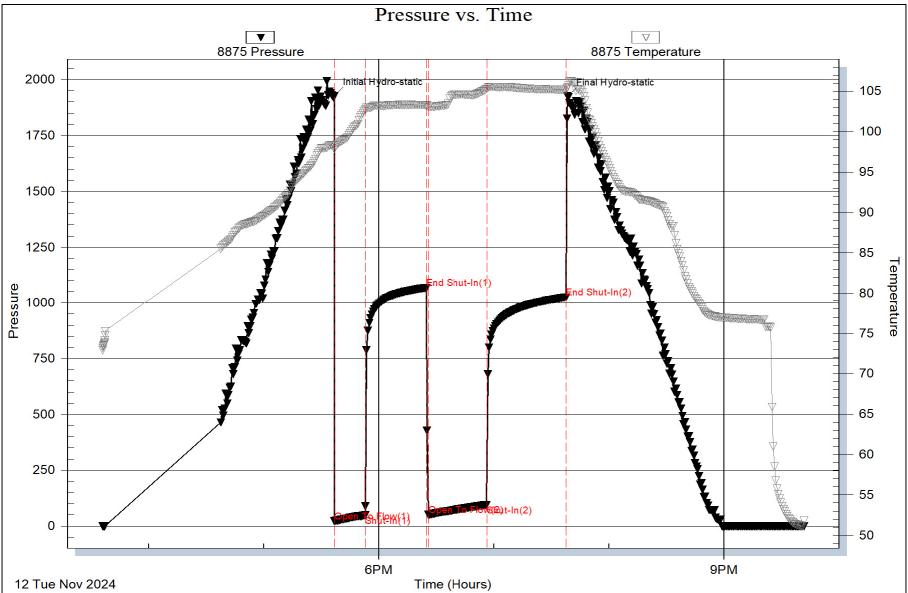
Total Length: 170.00 ft Total Volume: 2.410 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

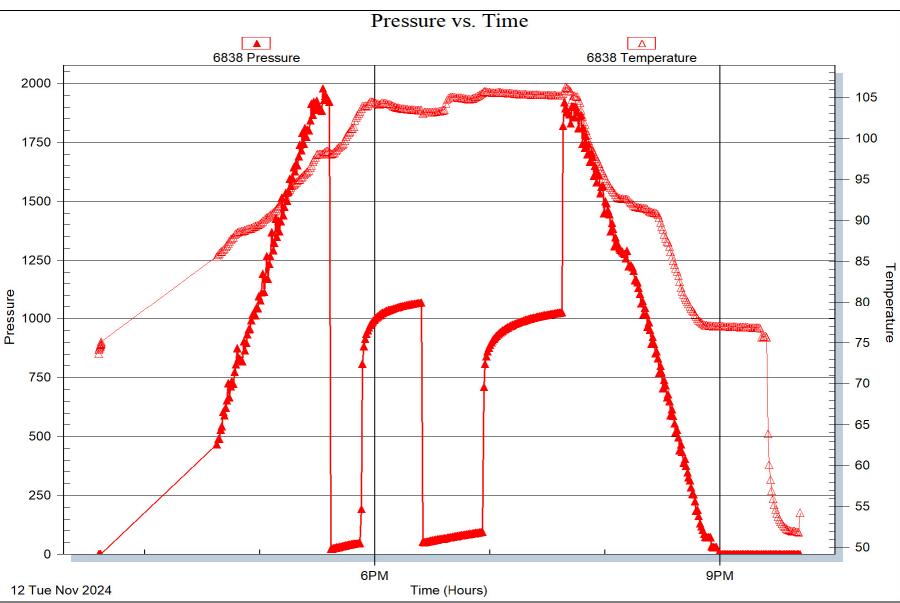
Recovery Comments: 2#LCM

RW=.251@53F



Wells #2-27

Trilobite Testing, Inc Printed: 2024.11.20 @ 11:13:25 Ref. No: 72452



Wells #2-27

Trilobite Testing, Inc Printed: 2024.11.20 @ 11:13:25 Ref. No: 72452



Prepared For: Shakespeare Oil Company Inc

202 W Main St Salem IL 62881+1519

ATTN: Kent Matson

Wells #2-27

27-16S-35W Wichita KS

Start Date: 2024.11.13 @ 13:11:00 End Date: 2024.11.13 @ 18:30:52 Job Ticket #: 72453 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.11.20 @ 11:12:48



Shakespeare Oil Company Inc

27-16S-35W Wichita KS

Wells #2-27

Job Ticket: 72453

DST#: 3

ATTN: Kent Matson

Salem IL 62881+1519

202 W Main St

Test Start: 2024.11.13 @ 13:11:00

GENERAL INFORMATION:

Formation: LKC D

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:57:52 Time Test Ended: 18:30:52

Interval: 4115.00 ft (KB) To 4135.00 ft (KB) (TVD)

Total Depth: 4135.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair Hole Diameter:

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab 75

Unit No:

3206.00 ft (KB)

Reference ⊟evations:

3196.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8875 Outside

Press@RunDepth:

Start Date:

35.51 psig @ 2024.11.13

4116.00 ft (KB) End Date:

2024.11.13

Capacity: Last Calib.:

psig 2024.11.13

Start Time: 13:11:01 End Time: 18:30:52

Time On Btm:

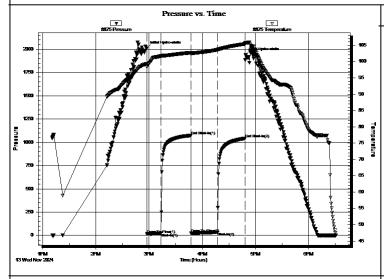
2024.11.13 @ 14:57:47

Time Off Btm:

2024.11.13 @ 16:48:37

TEST COMMENT: 15-IF-Surface to 1"

30-ISI-No Return 30-FF-Surface to 1" 30-FSI-No Return



PRESSURE SUMMARY

Time Pressure Temp		Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2009.61	99.28	Initial Hydro-static
1	13.39	98.41	Open To Flow (1)
16	23.45	101.70	Shut-In(1)
50	1073.02	102.67	End Shut-In(1)
50	24.87	102.17	Open To Flow (2)
80	35.51	103.62	Shut-In(2)
111	1042.88	105.42	End Shut-In(2)
111	1939.85	105.59	Final Hydro-static
1			

Recovery

Length (ft)	Description	Volume (bbl)			
30.00	Mud 100%M	0.43			
* Recovery from multiple tests					

Gas Rates

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

Ref. No: 72453 Printed: 2024.11.20 @ 11:12:48 Trilobite Testing, Inc



Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St Salem IL 62881+1519 **Wells #2-27**Job Ticket: 72453

2453 **DST#: 3**

ATTN: Kent Matson

Test Start: 2024.11.13 @ 13:11:00

GENERAL INFORMATION:

Formation: LKC D

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 14:57:52 Tester: Spencer J Staab
Time Test Ended: 18:30:52 Unit No: 75

Interval: 4115.00 ft (KB) To 4135.00 ft (KB) (TVD) Reference ⊟evations: 3206.00 ft (KB)

Total Depth: 4135.00 ft (KB) (TVD) 3196.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 6838 Inside

Press@RunDepth: psig @ 4116.00 ft (KB) Capacity: psig

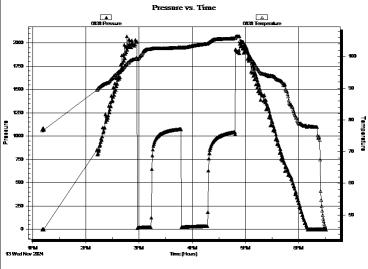
Start Date: 2024.11.13 End Date: 2024.11.13 Last Calib.: 2024.11.13

 Start Time:
 13:11:01
 End Time:
 18:30:52
 Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IF-Surface to 1"

30-ISI-No Return 30-FF-Surface to 1" 30-FSI-No Return



PRESSURE S	UMMARY
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	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
,				
Tamparatur				
•				

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%M	0.43
* Recovery from mul	tiple tests	•

Gas Rates

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

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St Salem IL 62881+1519 Wells #2-27

Job Ticket: 72453

DST#: 3

ATTN: Kent Matson

Test Start: 2024.11.13 @ 13:11:00

Tool Information

Drill Collar:

Drill Pipe: Length: 4116.00 ft Diameter: Heavy Wt. Pipe: Length: ft Diameter:

ft Diameter: 3.82 inches Volume: t Diameter: 2.75 inches Volume:

6.75 inches

58.35 bbl - bbl 0.00 bbl Tool Weight: 2500.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 61000.00 lb

Drill Pipe Above KB: 33.00 ft

Length:

2.25 inches Volume: 0.00 bbl

Total Volume: - bbl

Tool Chased ft String Weight: Initial 60000.00 lb

Depth to Top Packer: 4115.00 ft
Depth to Bottom Packer: ft

Final 60000.00 lb

Interval between Packers: 20.00 ft Tool Length: 52.00 ft

2.00 ft

2 Diameter:

0.00 ft Diameter:

Tool Comments:

Number of Packers:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4084.00		
Shut In Tool	5.00			4089.00		
Hydraulic tool	5.00			4094.00		
Jars	5.00			4099.00		
Gap Sub	4.00			4103.00		
Safety Joint	3.00			4106.00		
Packer	5.00			4111.00	32.00	Bottom Of Top Packer
Packer	4.00			4115.00		
Stubb	1.00			4116.00		
Recorder	0.00	6838	Inside	4116.00		
Recorder	0.00	8875	Outside	4116.00		
Perforations	16.00			4132.00		
Bullnose	3.00			4135.00	20.00	Bottom Packers & Anchor

Total Tool Length: 52.00



FLUID SUMMARY

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St

Wells #2-27 Job Ticket: 72453

DST#: 3

Salem IL 62881+1519 ATTN: Kent Matson

Test Start: 2024.11.13 @ 13:11:00

Mud and Cushion Information

Mud Type: Gel Chem Mud Weight:

Oil API:

deg API

Filter Cake:

9.00 lb/gal 57.00 sec/qt Cushion Length: Cushion Volume:

Cushion Type:

Water Salinity:

ppm

Viscosity: Water Loss: 6.79 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

ft

bbl

Resistivity: ohm.m Salinity: 10500.00 ppm

inches

Recovery Information

Recovery Table

Volume Description Length ft bbl 30.00 Mud 100%M 0.425

Total Length:

30.00 ft

Total Volume: 0.425 bbl

Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

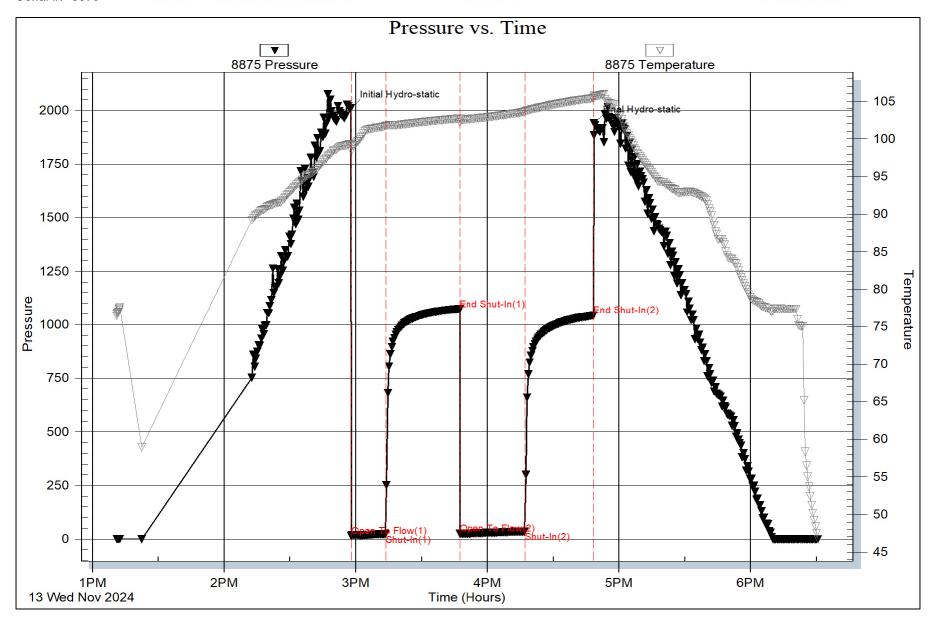
Laboratory Name:

Laboratory Location:

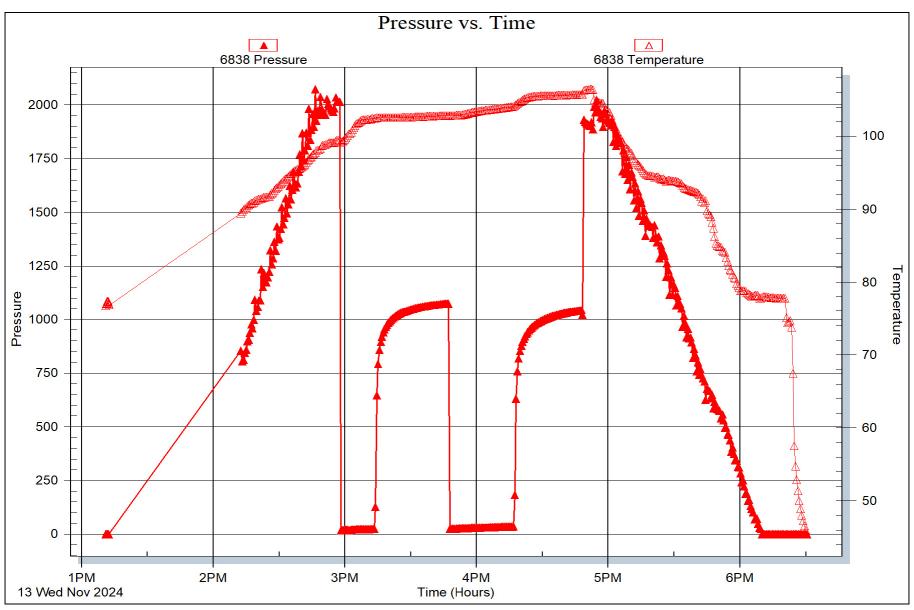
Recovery Comments: 2#LCM

Trilobite Testing, Inc Ref. No: 72453 Printed: 2024.11.20 @ 11:12:49

> Exhibit TB-2 Page 30 of 69



Serial #: 6838



Wells #2-27



Prepared For: Shakespeare Oil Company Inc

202 W Main St Salem IL 62881+1519

ATTN: Kent Matson

Wells #2-27

27-16S-35W Wichita KS

Start Date: 2024.11.14 @ 12:16:00 End Date: 2024.11.14 @ 18:11:12 Job Ticket #: 72454 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.11.20 @ 11:12:19



Shakespeare Oil Company Inc

27-16S-35W Wichita KS

Wells #2-27

Job Ticket: 72454

DST#: 4

ATTN: Kent Matson

Salem IL 62881+1519

202 W Main St

Test Start: 2024.11.14 @ 12:16:00

GENERAL INFORMATION:

Formation: LKC H-I

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:21:12
Time Test Ended: 18:11:12

Interval: 4196.00 ft (KB) To 4260.00 ft (KB) (TVD)

Total Depth: 4260.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 75

5

Reference ⊟evations:

3206.00 ft (KB)

psig

3196.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8875 Inside

Start Date:

Press@RunDepth: 36.80 psig @

2024.11.14

4199.00 ft (KB) End Date:

2024.11.14

Capacity: Last Calib.:

2024.11.14

Start Time: 12:16:01 End Time:

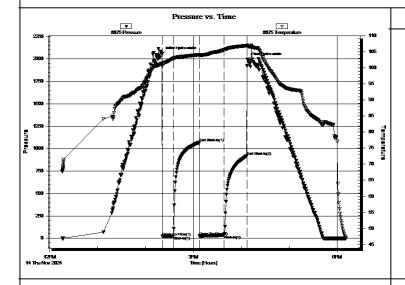
18:11:11

Time On Btm: 2024.11.14 @ 14:21:07

Time Off Btm: 2024.11.14 @ 16:08:07

TEST COMMENT: 15-IF-Surface to 1.5"

30-ISI-No Return 30-FF-Surface to 1.5" 30-FSI-No Return



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2055.49	101.33	Initial Hydro-static
1	21.71	100.53	Open To Flow (1)
14	25.34	102.91	Shut-In(1)
47	1067.94	104.07	End Shut-In(1)
47	26.91	103.67	Open To Flow (2)
78	36.80	105.61	Shut-In(2)
106	920.48	106.94	End Shut-In(2)
107	1993.03	106.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%M	0.43
* Recovery from mult	tiple tests	

Gas Rates

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



Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St

Salem IL 62881+1519

ATTN: Kent Matson

Wells #2-27

Job Ticket: 72454 **DST#: 4**

75

Reference ⊟evations:

Test Start: 2024.11.14 @ 12:16:00

GENERAL INFORMATION:

Formation: LKC H-I

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:21:12
Time Test Ended: 18:11:12

Interval: 4196.00 ft (KB) To 4260.00 ft (KB) (TVD)

Total Depth: 4260.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J Staab

3206.00 ft (KB)

3196.00 ft (CF) KB to GR/CF: 10.00 ft

Serial #: 6838 Inside

Press@RunDepth: psig @ 4199.00 ft (KB) Capacity: psig

Start Date: 2024.11.14 End Date: 2024.11.14 Last Calib.: 2024.11.14

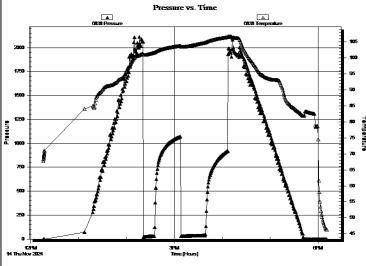
 Start Time:
 12:16:01
 End Time:
 18:11:11
 Time On Btm:

Time Off Btm:

Unit No:

TEST COMMENT: 15-IF-Surface to 1.5"

30-ISI-No Return 30-FF-Surface to 1.5" 30-FSI-No Return



Ы	RESSUR	RE SUMMARY
iire	Temn	Annotation

Ten	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	
Temperature					

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%M	0.43
* Recovery from mul	tiple tests	

Gas Rates

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



TOOL DIAGRAM

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St

Wells #2-27

Salem IL 62881+1519

Job Ticket: 72454 **DST#: 4**

ATTN: Kent Matson

Test Start: 2024.11.14 @ 12:16:00

Tool Information

Drill Pipe: Length: 4177.00 ft Diameter:
Heavy Wt. Pipe: Length: ft Diameter:
Drill Collar: Length: 0.00 ft Diameter:

3.82 inches Volume: 59.21 bbl
2.75 inches Volume: - bbl
2.25 inches Volume: 0.00 bbl

- bbl

Total Volume:

Tool Weight: 2500.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 61000.00 lb

Drill Pipe Above KB: 13.00 ft
Depth to Top Packer: 4196.00 ft

Tool Chased ft String Weight: Initial 60000.00 lb

Final 60000.00 lb

Depth to Bottom Packer: 4196.00 ft

Interval betw een Packers: 64.00 ft
Tool Length: 96.00 ft

2 Diameter: 6.75 inches

Tool Comments:

Number of Packers:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4165.00		
Shut In Tool	5.00			4170.00		
Hydraulic tool	5.00			4175.00		
Jars	5.00			4180.00		
Gap Sub	4.00			4184.00		
Safety Joint	3.00			4187.00		
Packer	5.00			4192.00	32.00	Bottom Of Top Packer
Packer	4.00			4196.00		
Stubb	1.00			4197.00		
Perforations	1.00			4198.00		
Change Over Sub	1.00			4199.00		
Recorder	0.00	6838	Inside	4199.00		
Recorder	0.00	8875	Inside	4199.00		
Drill Pipe	32.00			4231.00		
Change Over Sub	1.00			4232.00		
Perforations	25.00			4257.00		
Bullnose	3.00			4260.00	64.00	Bottom Packers & Anchor

Total Tool Length: 96.00



FLUID SUMMARY

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St Salem IL 62881+1519 Wells #2-27

Job Ticket: 72454

DST#: 4

ATTN: Kent Matson

Test Start: 2024.11.14 @ 12:16:00

Mud and Cushion Information

9.99 in³

11800.00 ppm

ohm.m

Mud Type: Gel Chem Cushion Type: Oil API: deg API Mud Weight: Cushion Length: ft Water Salinity: ppm

9.00 lb/gal Viscosity: 58.00 sec/qt Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Filter Cake: inches **Recovery Information**

Water Loss:

Resistivity:

Salinity:

Recovery Table

Volume Description Length ft bbl 30.00 Mud 100%M 0.425

Total Length: 30.00 ft Total Volume: 0.425 bbl

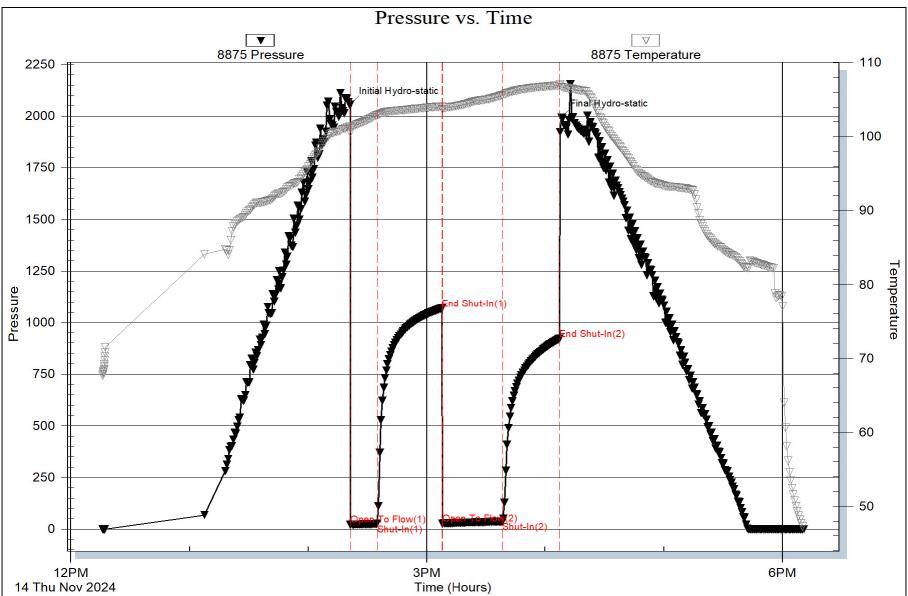
Num Fluid Samples: 0 Num Gas Bombs: Serial #:

Laboratory Name: Laboratory Location:

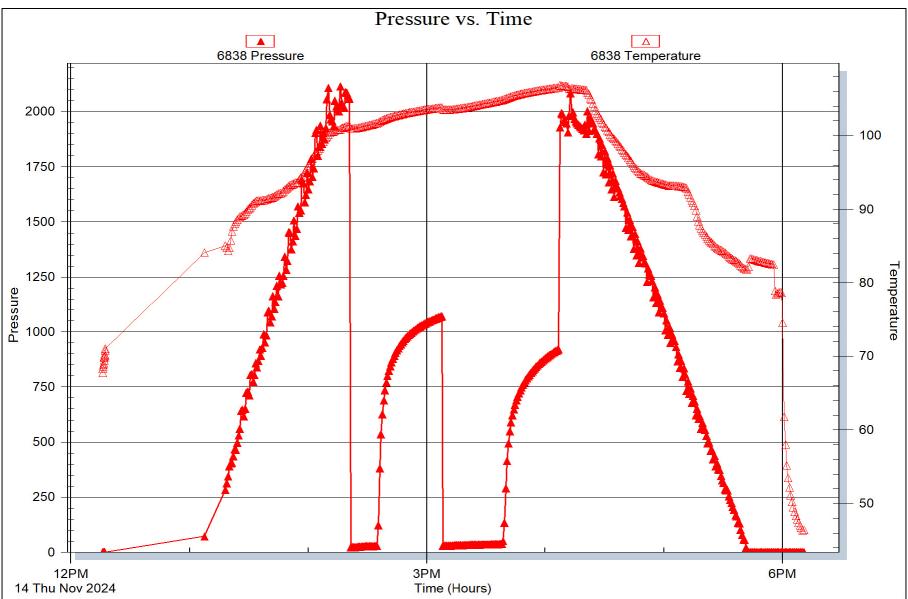
Recovery Comments: 2#LCM

DST Test Number: 4

Wells #2-27



Trilobite Testing, Inc Printed: 2024.11.20 @ 11:12:20 Ref. No: 72454



Wells #2-27



Prepared For: Shakespeare Oil Company Inc

202 W Main St Salem IL 62881+1519

ATTN: Kent Matson

Wells #2-27

27-16S-35W Wichita KS

Start Date: 2024.11.15 @ 04:35:00 End Date: 2024.11.15 @ 11:08:12 Job Ticket #: 72455 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.11.20 @ 11:11:50



Shakespeare Oil Company Inc

27-16S-35W Wichita KS

Wells #2-27

Job Ticket: 72455

DST#: 5

ATTN: Kent Matson

Salem IL 62881+1519

202 W Main St

Test Start: 2024.11.15 @ 04:35:00

GENERAL INFORMATION:

Formation: LKC J-K

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:02:57 Time Test Ended: 11:08:12

Interval: 4266.00 ft (KB) To 4315.00 ft (KB) (TVD)

Total Depth: 4315.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair Hole Diameter:

Test Type: Conventional Bottom Hole (Reset)

Spencer J Staab

Unit No: 75

Tester:

Reference ⊟evations:

3206.00 ft (KB) 3196.00 ft (CF)

psig

KB to GR/CF: 10.00 ft

Serial #: 8875

Inside Press@RunDepth:

97.11 psig @

4269.00 ft (KB)

2024.11.15

Capacity: Last Calib.:

Start Date: Start Time: 2024.11.15 04:35:01

End Date: End Time:

11:08:11

Time On Btm:

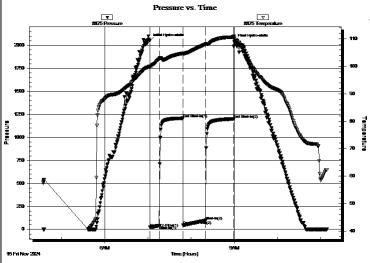
2024.11.15 2024.11.15 @ 07:02:47

Time Off Btm:

2024.11.15 @ 09:00:22

TEST COMMENT: 15-IF-Surface to 5.25"

30-ISI-Surface Blow 30-FF-Surface to 7.25" 40-FSI-Weak Surface Blow



	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2049.97	99.91	Initial Hydro-static
	1	20.97	99.38	Open To Flow (1)
	14	42.68	102.61	Shut-In(1)
	46	1207.34	104.65	End Shut-In(1)
1	47	45.66	104.52	Open To Flow (2)
	78	97.11	108.00	Shut-In(2)
•	117	1200.98	110.59	End Shut-In(2)
	118	2045.16	109.65	Final Hydro-static

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
100.00	MCW 15%M 85%W	1.42
60.00	SWCM 5%W 95%M	0.85
40.00	VSOCM 1%O 99%M	0.57
* Recovery from mult	tiple tests	

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

Printed: 2024.11.20 @ 11:11:50

Trilobite Testing, Inc

Ref. No: 72455

Exhibit TB-2 Page 41 of 69



Shakespeare Oil Company Inc

27-16S-35W Wichita KS

DST#: 5

202 W Main St Wells #2-27

Salem IL 62881+1519 Job Ticket: 72455

ATTN: Kent Matson Test Start: 2024.11.15 @ 04:35:00

GENERAL INFORMATION:

Formation: LKC J-K

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Reset) No ft (KB)

Time Tool Opened: 07:02:57 Tester: Spencer J Staab Time Test Ended: 11:08:12 Unit No: 75

Interval: 4266.00 ft (KB) To 4315.00 ft (KB) (TVD) Reference ⊟evations:

3206.00 ft (KB) Total Depth: 4315.00 ft (KB) (TVD) 3196.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 6838 Inside

Press@RunDepth: 4269.00 ft (KB) psig @ Capacity: psig

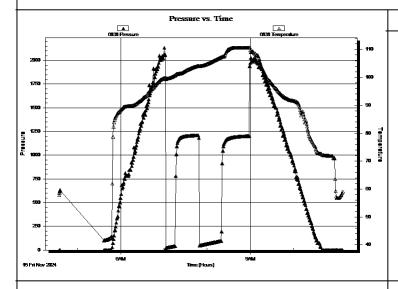
Start Date: 2024.11.15 End Date: 2024.11.15 Last Calib.: 2024.11.15

Start Time: 04:35:01 End Time: Time On Btm: 11:08:11

Time Off Btm:

TEST COMMENT: 15-IF-Surface to 5.25"

30-ISI-Surface Blow 30-FF-Surface to 7.25" 40-FSI-Weak Surface Blow



Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)		
100.00	MCW 15%M 85%W	1.42		
60.00	SWCM 5%W 95%M	0.85		
40.00	VSOCM 1%O 99%M	0.57		
* Recovery from multiple tests				

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



TOOL DIAGRAM

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St Salem IL 62881+1519 Wells #2-27

Job Ticket: 72455

DST#: 5

ATTN: Kent Matson

Test Start: 2024.11.15 @ 04:35:00

Tool Information

Drill Collar:

Drill Pipe: Length: 4244.00 ft Diameter: Heavy Wt. Pipe: Length: ft Diameter:

ft Diameter: 3.82 inches Volume: t Diameter: 2.75 inches Volume:

2.25 inches Volume:

60.16 bbl Tool Weight:
- bbl Weight set on Pa
0.00 bbl Weight to Pull Lo

Tool Weight: 2500.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 62000.00 lb

Drill Pipe Above KB: 10.00 ft
Depth to Top Packer: 4266.00 ft

Length:

Total Volume: - bbl

Tool Chased ft String Weight: Initial 60000.00 lb

Depth to Bottom Packer: ft Interval between Packers: 49.00 ft

Final 60000.00 lb

Tool Length: 49.00 ft 81.00 ft

Number of Packers: 2 Diamete

2 Diameter: 6.75 inches

0.00 ft Diameter:

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4235.00		
Shut In Tool	5.00			4240.00		
Hydraulic tool	5.00			4245.00		
Jars	5.00			4250.00		
Gap Sub	4.00			4254.00		
Safety Joint	3.00			4257.00		
Packer	5.00			4262.00	32.00	Bottom Of Top Packer
Packer	4.00			4266.00		
Stubb	1.00			4267.00		
Perforations	1.00			4268.00		
Change Over Sub	1.00			4269.00		
Recorder	0.00	6838	Inside	4269.00		
Recorder	0.00	8875	Inside	4269.00		
Drill Pipe	32.00			4301.00		
Change Over Sub	1.00			4302.00		
Perforations	10.00			4312.00		
Bullnose	3.00			4315.00	49.00	Bottom Packers & Anchor

Total Tool Length: 81.00



FLUID SUMMARY

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St Salem IL 62881+1519 Wells #2-27

Job Ticket: 72455

DST#: 5

ATTN: Kent Matson

Test Start: 2024.11.15 @ 04:35:00

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: 39000 ppm

Viscosity: 58.00 sec/qt Cushion Volume: bbl

Water Loss: 9.99 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 11800.00 ppm Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	MCW 15%M 85%W	1.418
60.00	SWCM 5%W 95%M	0.851
40.00	VSOCM 1%O 99%M	0.567

Total Length: 200.00 ft Total Volume: 2.836 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

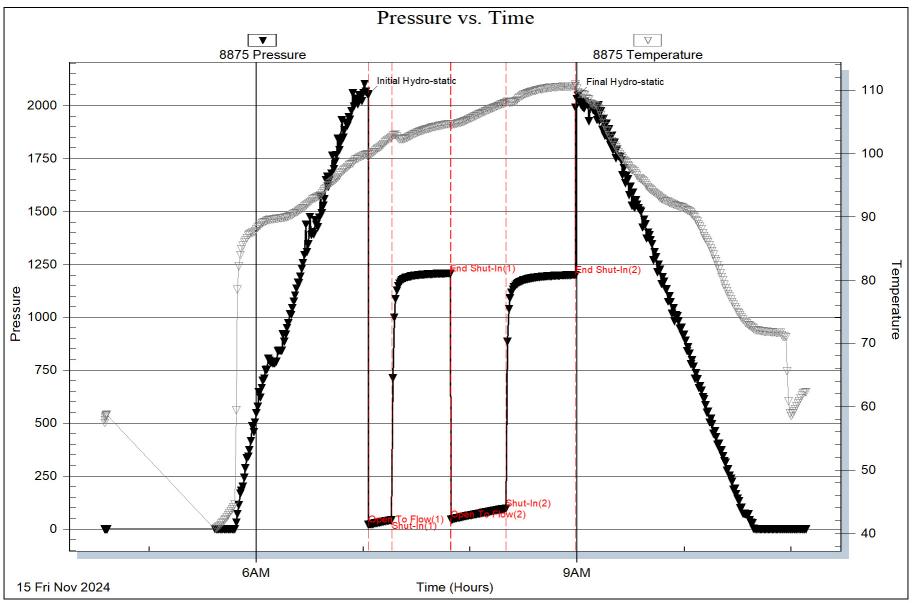
Laboratory Name: Laboratory Location:

Recovery Comments: 2#LCM

RW=.239@55F

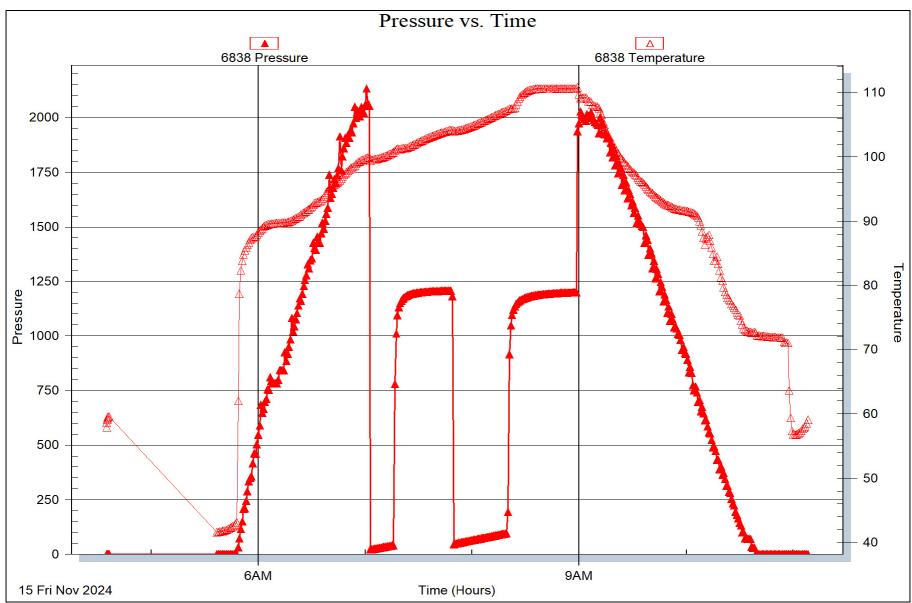
DST Test Number: 5





Trilobite Testing, Inc Printed: 2024.11.20 @ 11:11:50 Ref. No: 72455

Shakespeare Oil Company Inc Serial #: 6838 Inside Wells #2-27 DST Test Number: 5



Printed: 2024.11.20 @ 11:11:50 Trilobite Testing, Inc Ref. No: 72455



Prepared For: Shakespeare Oil Company Inc

202 W Main St Salem IL 62881+1519

ATTN: Kent Matson

Wells #2-27

27-16S-35W Wichita KS

Start Date: 2024.11.16 @ 14:08:00 End Date: 2024.11.16 @ 20:27:52 Job Ticket #: 72456 DST #: 6

Trilobite Testing, Inc PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.11.20 @ 11:07:50



Shakespeare Oil Company Inc

27-16S-35W Wichita KS

Wells #2-27

Job Ticket: 72456

DST#: 6

ATTN: Kent Matson

Salem IL 62881+1519

202 W Main St

Test Start: 2024.11.16 @ 14:08:00

GENERAL INFORMATION:

Formation: Marmaton A-C

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 16:23:02 Time Test Ended: 20:27:52

4444.00 ft (KB) To 4510.00 ft (KB) (TVD)

Total Depth: 4510.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Tester: Spencer J Staab

Reference Bevations: 3206.00 ft (KB)

3196.00 ft (CF) KB to GR/CF: 10.00 ft

Serial #: 8875
Press@RunDepth:

Inside

30.27 psig @

4448.00 ft (KB)

2024.11.16

Capacity: Last Calib.:

Unit No:

2024.11.16

psig

Start Date: Start Time:

Interval:

2024.11.16 14:08:01 End Date: End Time:

20:27:52

Time On Btm:

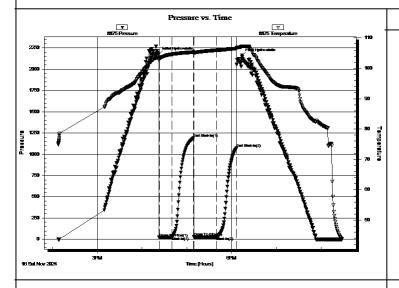
2024.11.16 @ 16:22:47

Time Off Btm: 2024.11.16 @ 18:13:47

75

TEST COMMENT: 15-IF-Surface to 1"

30-ISI-No Return 30-FF-Surface to 2.25" 30-FSI-No Return



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2171.84	103.47	Initial Hydro-static
1	22.84	103.16	Open To Flow (1)
18	29.76	104.62	Shut-In(1)
47	1191.12	105.31	End Shut-In(1)
47	29.84	105.13	Open To Flow (2)
77	30.27	105.96	Shut-In(2)
104	1072.22	106.51	End Shut-In(2)
111	2158.69	107.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)		
15.00	GMCO 10%G 15%M 75%O	0.21		
15.00	GO 10%G 90%O	0.21		
0.00	0.00 30 GIP 100%G			
* Recovery from multiple tests				

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Printed: 2024.11.20 @ 11:07:50

Trilobite Testing, Inc

Ref. No: 72456

Exhibit TB-2 Page 48 of 69



Shakespeare Oil Company Inc

202 W Main St

Salem IL 62881+1519

27-16S-35W Wichita KS

Wells #2-27

Tester:

Job Ticket: 72456

DST#: 6

ATTN: Kent Matson

Test Start: 2024.11.16 @ 14:08:00

GENERAL INFORMATION:

Formation: Marmaton A-C

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 16:23:02 Time Test Ended: 20:27:52

Interval:

0:27:52 Unit No: 75

Total Depth: 4510.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3206.00 ft (KB)

Spencer J Staab

3196.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6838 Inside

Press@RunDepth: psig @ 4448.00 ft (KB) Capacity: psig

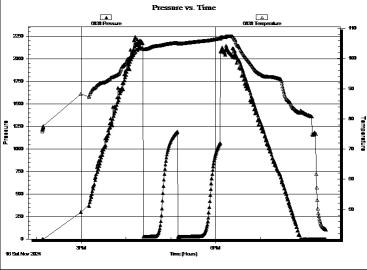
Start Date: 2024.11.16 End Date: 2024.11.16 Last Calib.: 2024.11.16

Start Time: 14:08:01 End Time: 20:27:52 Time On Btm: Time Off Btm:

TEST COMMENT: 15-IF-Surface to 1"

30-ISI-No Return 30-FF-Surface to 2.25" 30-FSI-No Return

4444.00 ft (KB) To 4510.00 ft (KB) (TVD)



PRESSURE SU	JMMARY
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Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
7				
Ü				

Recovery

Length (ft)	Description	Volume (bbl)		
15.00	15.00 GMCO 10%G 15%M 75%O			
15.00	GO 10%G 90%O	0.21		
0.00 30 GIP 100%G		0.00		
* Recovery from multiple tests				

Gas Rates

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



TOOL DIAGRAM

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St

Wells #2-27

Job Ticket: 72456

DST#: 6

Salem IL 62881+1519

ATTN: Kent Matson

Test Start: 2024.11.16 @ 14:08:00

Tool Information

Drill Collar:

Drill Pipe: Length: 4432.00 ft Diameter: Heavy Wt. Pipe: Length: ft Diameter:

Length: ft Diameter:
Length: 0.00 ft Diameter:

2

3.82 inches Volume: 2.75 inches Volume: 2.25 inches Volume: Total Volume: 62.83 bbl - bbl 0.00 bbl

- bbl

Tool Weight: 2500.00 lb
Weight set on Packer: 25000.00 lb
Weight to Pull Loose: 65000.00 lb
Tool Chased ft

String Weight: Initial 63000.00 lb

Final 63000.00 lb

Drill Pipe Above KB: 20.00 ft
Depth to Top Packer: 4444.00 ft

Depth to Bottom Packer: ft
Interval betw een Packers: 66.00 ft
Tool Length: 98.00 ft

Number of Packers:

Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4413.00		
Shut In Tool	5.00			4418.00		
Hydraulic tool	5.00			4423.00		
Jars	5.00			4428.00		
Gap Sub	4.00			4432.00		
Safety Joint	3.00			4435.00		
Packer	5.00			4440.00	32.00	Bottom Of Top Packer
Packer	4.00			4444.00		
Stubb	1.00			4445.00		
Perforations	2.00			4447.00		
Change Over Sub	1.00			4448.00		
Recorder	0.00	6838	Inside	4448.00		
Recorder	0.00	8875	Inside	4448.00		
Drill Pipe	32.00			4480.00		
Change Over Sub	1.00			4481.00		
Perforations	26.00			4507.00		
Bullnose	3.00			4510.00	66.00	Bottom Packers & Anchor

Total Tool Length: 98.00



FLUID SUMMARY

ppm

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St Salem IL 62881+1519 **Wells #2-27**Job Ticket: 72456

DST#: 6

ATTN: Kent Matson

Test Start: 2024.11.16 @ 14:08:00

Water Salinity:

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: 24 deg API

Mud Weight:9.00 lb/galCushion Length:ftViscosity:63.00 sec/qtCushion Volume:bbl

7.99 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 10000.00 ppm Filter Cake: inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
15.00	GMCO 10%G 15%M 75%O	0.213
15.00	GO 10%G 90%O	0.213
0.00	30 GIP 100%G	0.000

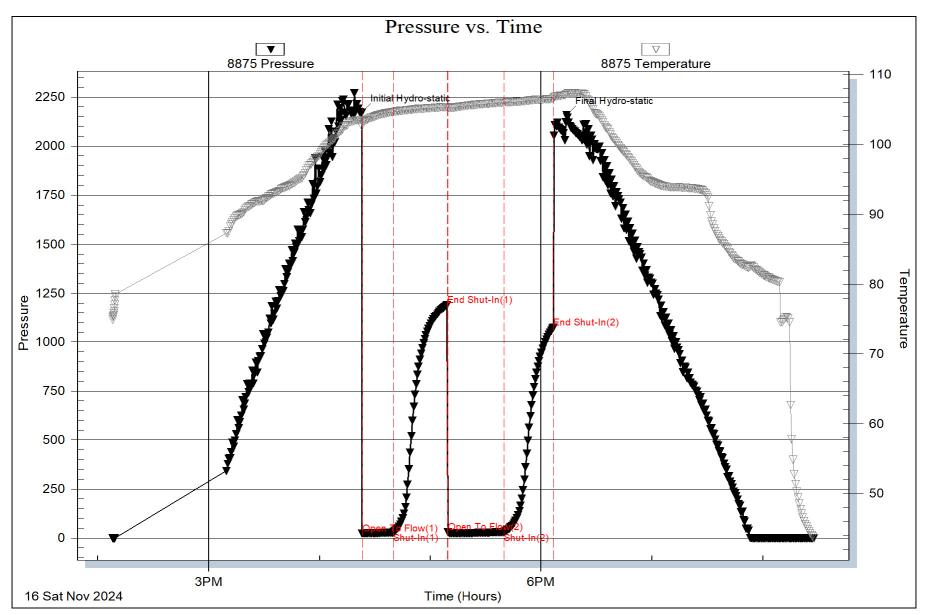
Total Length: 30.00 ft Total Volume: 0.426 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

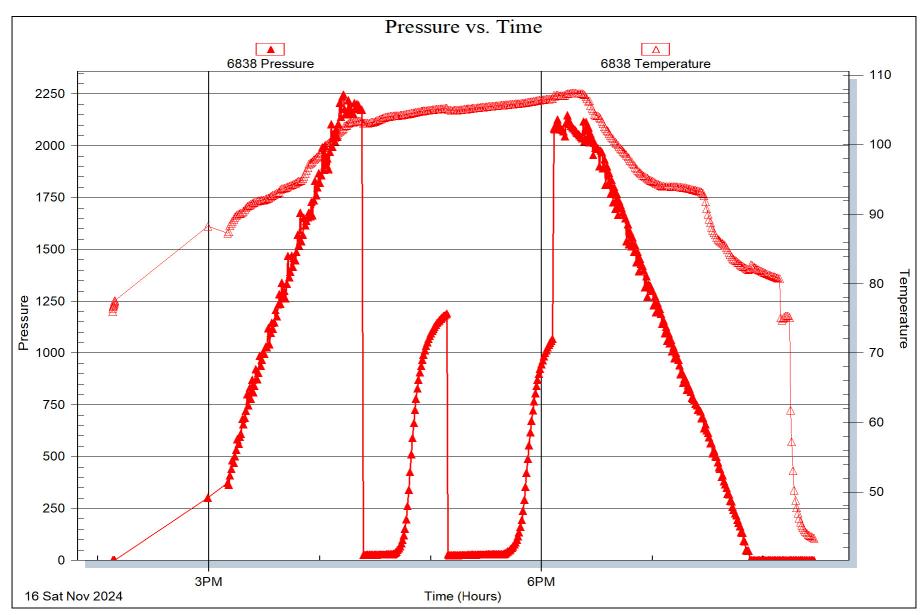
Laboratory Name: Laboratory Location:

Recovery Comments: 2#LCM

Serial #: 8875 Inside Shakespeare Oil Company Inc Wells #2-27 DST Test Number: 6



Serial #: 6838 Inside Shakespeare Oil Company Inc Wells #2-27 DST Test Number: 6



Trilobite Testing, Inc Ref. No: 72456 Printed: 2024.11.20 @ 11:07:51



1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 72451

Articles.					, ,	
Well Name & No.	Wells # 2-27		Test No	1	ate /////20	24
Company Shah	espeare Oil Con	many Inc	Elevation 3	206	кв 3196	GL
Address 202	W Maia S	7 Salem	DL 60	1881 +15	19	
Co. Rep / Geo Ko	nt Matson		Rig Dul	re #4		
Location: Sec.		Rge. <u>35 W</u>	_ co. Wick	lita	State 2	5
Interval Tested 386	4'- 3940'	Zone Tested L	ecompton	& Ones	rd	
Anchor Length 7	.1	Drill Pipe Run	1 1:		d Wt. 8.8	Manager Control
Top Packer Depth	3859'	Drill Collars Run			51	
Bottom Packer Depth	3864'	Wt. Pipe Run		WL	5.8	
Total Depth 3940	o'	Chlorides	200 pp	m System LC	м <i>2#</i>	
	7- Surface to 4	7.75				
J.SJ-16 A	Ceturla					
77-Surla	g to 6.25"					
750-160/A	eturn	1 11 .				
Rec	Feet of Oil Sports	ed Mud	%gas	%oil	%water /	%mud
Rec			%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	Feet of		%gas	%oil	%water	%mud
Rec	Feet of		%gas	%oil	%water	%mud
Rec Total	BHT /02°		API RW	@*F Ch	lorides	ppm
Initial Hydrostatic/				_ □ Ruined Sh	ale Packer	
Initial Flow/	6 to 40	_ 🗡 Jars <u>300</u>		_ □ Ruined Pa	cker	
Initial Shut-In	7014	_ Circ Sub		X Hotel		
Final Flow 4		_ ☐ Hourly Standby		_ XEM Tool Si	uccessful	
Final Shut-In		_ Mileage 5627	7 98	_	ty	
Final Hydrostatic		_ □ Sampler		_ □ Gas Samp	le	
10	T- On Location <u>18:12</u>	_ Straddle		_ Oversized	Hole	
Initial Flow 75		☐ Shale Packer —		_ □ Sub Total _	0	
Initial Shut-In 30	_ T-Open_ <u>21:20</u>	_ □ Extra Packer		_ D Total	2198	
Final Flow 30	_ T-Pulled 23:05			_	ed@	
Final Shut-In 30	T-Out 66:17	Day Standby		_ □ MP/DST D	isc't	
Comments Mul	eage from Sco	the City sh	ep_			
	00	U				
		To N		Mont		
Approved By		Our	Representative	TIV XIAM		

Trilobite Testing Inc. shall not be liable for damage of any kind of 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.

Exhibit TB-2

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Test Ticket

	_	#ESTING INC. 1515 Commerce Parkway • Hays, Kansas 67601			NO.	72452
Nama & Na	11).00.	1227	Took No.	1		Date 11/17/20

Well Name & No. Wells # 2-2	7 Test No.	2 Date 11/12/2024
Company Shahasneare Oil Con	msany Inc Elevation	
Address 202 W Main St		2881 +1519
Co. Rep/Geo Rout Matson	A	ike #4
Location: Sec. 27 Twp 165	Rge. 35 20 Co. Wie	chita State KS
Interval Tested 3984 '- 4050	Zone Tested Toronto -	LXC 'a'
Anchor Length 66	Drill Pipe Run _3961	Mud Wt9, O
Top Packer Depth 39 79	Drill Collars Run	
Bottom Packer Depth 3984	Wt. Pipe Run	10.10
Total Depth 4050	Chlorides <u>9100</u> p	
Blow Description 7- Surface to	5.75"	
JD- No Return		
77- Surface to 8"		
753- No Ketwen		
Rec 70 Feet of WCM	%gas	%oil /5 %water 85 %mud
Rec 60 Feet of SWCM	%gas	%oil 5 %water 9,5 %mud
Rec_40 Feet of Mud wy	orl spotts (tarry) "gas	%oil %water/OO %mud
Rec Feet of	%gas	%oil %water %mud
Rec Feet of	%gas	%oil %water %mud
Rec Feet of	%gas	%oil %water %mud
RecFeet of	%gas	%oil %water %mud
Rec Total 170' BHT 1050	Gravity API RW _25/	@ <u>53</u> *F Chlorides <u>41,000</u> ppm
Initial Hydrostatic 1925	1950	☐ Ruined Shale Packer
Initial Flow 21 to 48	Jars300	☐ Ruined Packer
Initial Shut-In 7067	☐ Circ Sub	Hotel
Final Flow	☐ Hourly Standby	EM Tool Successful
Final Shut-In 1025	Mileage 5677 98	Accessibility
Final Hydrostatic	□ Sampler	☐ Gas Sample
T- On Location 14:40	☐ Straddle	Oversized Hole
Initial Flow 15 T-Started 15:36	☐ Shale Packer	□ Sub Total 0
Initial Shut-In 30 T-Open 17:38	☐ Extra Packer	□ Total 2348
Final Flow 30 T-Pulled 19:33	☐ Extra Recorder	□ Tool Loaded@
Final Shut-In 40 T-Out 21:41	☐ Day Standby	☐ MP/DST Disc't
Comments		
		A OF
Approved By	Our Representative	1 V Staat

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Test Ticket

NO.

72453

"MATELY"					
Well Name & No. Wells # 2-27	1	Test No	3	Date 11/13/20	024
Company, Shahespeare Oil Con	upany Inc	Elevation 3		KB 3/96	GL
Address 202 W Main S	Salem	di	62881		
Co. Rep/Geo Hent Matson		Rig Dr	who #4		
	Rge. 3.5 W	Co. Wich	ita	State	5
Interval Tested 4//5 - 4/35	Zone Tested £	RC E) '		14-24
Anchor Length 20'	Drill Pipe Run 4	116'	M	ud Wt. 9,05	
Top Packer Depth 4//0	Drill Collars Run _	_	V	s_57	
Bottom Packer Depth 4/15	Wt. Pipe Run	_	W	6.8	
Total Depth 4/35'	_ Chlorides 10,5	00 pp	m System L	см_ <i>2#</i>	
Blow Description J- Surface to 1"					
IS - No Keturn					
77- Surface to 1"					
751 - No Kelury				300	(4.4)
RecSOFeet of		%gas	%oil	%water /	100%mud
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 Feet of		%gas	%oil	%water	%mud
RecFeet of		%gas	%oil	%water	%mud
Rec Total 36 BHT 105°		PI RW			ppm
Initial Hydrostatic 2009	Test1950			hale Packer	
Initial Flow 13 to 23	. ✓ Jars300			acker	
Initial Shut-In 10+3	☐ Circ Sub				
Final Flow 24 to 35	☐ Hourly Standby		/	Successful	
Final Shut-In 1042	Mileage 56 77	98	_	ility	
Final Hydrostatic 1939	☐ Sampler			ple	
T- On Location [2:38]	☐ Straddle			d Hole	
Initial Flow 5 T-Started 13:11	☐ Shale Packer				
Initial Shut-In 30 T-Open 14:58	☐ Extra Packer				
Final Flow 30 T-Pulled 16 . 43	☐ Extra Recorder			ded@	
Final Shut-In 30 T-Out 18 150	☐ Day Standby		_ DMP/DST	Disc't	-
Comments					
				Λ	
			PASE		
Approved By	Our R	epresentative _	14/1	and	

Trilobite Testing Inc. shall not be liable for damage of any kind of 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.

Exhibit TB-2

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Test Ticket

	and a	mmerce Parkway • Ha	ys, Kansas 6760	1	NO.	72454
Well Name & No	Wells	#2-27		Test No.	4	Date ///14/202
Company Sha			my Duc	Elevation	3206'	кв 3196

Company Sha	hespeare Oil (oruperny r	Dnc Elevatio	n_3206'	кв 3196'	GL
Address 202	. 1. 1.1.	t' Sale	m IL	62881+1		
Co. Rep / Geo A	ent Motson		Rig 2	Juke #4		
Location: Secc	27 Twp 165	Rge352		// .	State <u> </u>	
Interval Tested 4/	96'- 4260'	Zone Tes	ted LHC	2/1		
Anchor Length 6			Run 4/77		Mud Wt. 9.15	
Top Packer Depth 4			ars Run		Vis58	
Bottom Packer Dep			Run		WL 10.0	
Total Depth 4260	o' .	Chlorides	11,800	ppm System	LCM_2#	
	17- Surface to 1.	5"				
JSJ-10 1	Return					
77- Sur	fuce to 1.5"					
75A-16-1	eturn					
Rec30	Feet of Much		%gas		%water//) C	
Rec			%gas		%water	%mud
	Feet of		%gas	s %oil	%water	%mud
Rec	Feet of		%gas	%oil	%water	%mud
Rec			%qas	s %oil	%water	%mud
Rec			%gas	%oil	%water	%mud
Rec		,	%gas	%oil	%water	%mud
Rec Total 30		Gravity		@*I	F Chlorides	ppm
Initial Hydrostatic_	2055	X Test		Ruine	d Shale Packer	3-
Initial Flow		X Jars	300	□ Ruine	d Packer	
Initial Shut-In				,		
Final Flow	- 8	□ Hourly St	andby		ool Successful -175	
Final Shut-In	920	X Mileage	36×7 98		sibility	
Final Hydrostatic	1995	□ Sampler		Gas S	ample	
	T- On Location 11:33	☐ Straddle		Overs	ized Hole	
Initial Flow15	T-Started 12:16	□ Shale Pa	cker	□ Sub To	otal175	
Initial Shut-In 30	T-Open 14:20	□ Extra Pac	cker	Total	2173	
Final Flow 30	T-Pulled 16:05	□ Extra Red	corder	🗆 Tool L	oaded@	
Final Shut-In_30		□ Day Stan	dby		ST Disc't	
Comments		- A				
					2	

Our Representative Approved By_

Trilobite Testing Inc. shall not be liable for damage of any kind of 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.

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1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

72455 NO.

Well Name & No. Wells # 2-27 Test No. 5 Date 11/15/20.	Z 4 GL
Address 202 W Main St Selem II 62881 + 1.519 Co. Rep / Geo Kent Matson Rig Duke #4 Location: Sec. 27 Twp 165 Rge. 3510 Co. Wichita State 15 Interval Tested 4266 - 4315 Zone Tested 16 C J - 16 Anchor Length 49 Drill Pipe Run 4244 Mud Wt. 9, 15 Top Packer Depth 4266 Wt. Pipe Run WL 10.0 Total Depth 4315 Chlorides 1/800 ppm System LCM 2# Blow Description 17 - Surface to 5.25"	GL
Address 202 W Main St Selem II 62881 + 1,519 Co. Rep / Geo Lent Matson Rig Duke #4 Location: Sec. 27 Twp 165 Rge. 35 W Co. Wichte State 15 Interval Tested 4266 - 4315 Zone Tested LC J - K Anchor Length 49 Drill Pipe Run 4244 Mud Wt. 9, 15 Top Packer Depth 4266 Wt. Pipe Run WL 10.0 Total Depth 4315 Chlorides 1/800 ppm System LCM 2# Blow Description 17 - Surface to 5,25"	
Location: Sec. 27 Twp 16S Rge. 3520 Co. Wuchita State 16S Interval Tested 4266' - 4315' Zone Tested 16C 4C Anchor Length 49' Drill Pipe Run 4244' Mud Wt. 9,15 Top Packer Depth 4266' Drill Collars Run Vis 58 Bottom Packer Depth 4266' Wt. Pipe Run WL 16.0 Total Depth 4315 Chlorides 1/800 ppm System LCM 2# Blow Description 7 - Surface 16S 1800 ppm System LCM 2# Surface 18 Surf	
Location: Sec. 27 Twp 16S Rge. 3510 Co. 10 Co	
Interval Tested 4266' - 4315' Zone Tested 22 C	
Anchor Length 49' Top Packer Depth 4266' Bottom Packer Depth 4366' Total Depth 4315 Blow Description 77 - Surface to 5.25" Drill Pipe Run 4244' Wu Mud Wt. 9.15 Wis 58 Wt. Pipe Run WL 10.0 Chlorides 1/800 ppm System LCM 2# LCM 2#	
Top Packer Depth 4266 Drill Collars Run Vis 58 Bottom Packer Depth 4266 Wt. Pipe Run WL /0.0 Total Depth 4315 Chlorides //800 ppm System LCM 2# Blow Description 37 - Surface to 5.25"	
Bottom Packer Depth 4266 Wt. Pipe Run WL 10.0 Total Depth 4315 Chlorides 1/800 ppm System LCM 2# Blow Description 37 - Surface to 5.25" Surface Blow	
Total Depth 4315 Chlorides 1/800 ppm System LCM 2# Blow Description 37 - Surface to 5.25" Surface Blow	
ISS-Surface Blow	
77-5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
TI Swiffer no 1.00	
750- Weak Surface Blow	
Rec 100' Feet of MCW %gas %oil 8.5 %water 1.5	%mud
Rec 60 Feet of SWCM %gas %oil 5 %water 9.5	
Rec	%mud
Rec Feet of %gas %oil %water	%mud
Rec Feet of %gas %oil %water	%mud
Rec Feet of %gas %oil %water	%mud
RecFeet of%gas %oil %water	%mud
Rec Total BHT Gravity API RW	ppm
Initial Hydrostatic 2049 Test 1950 Ruined Shale Packer	
Initial Flow to to	
Initial Shut-In 1207 □ Circ Sub □ KHotel □	
Final Flow 45 to 97	
Final Shut-In 1200 Mileage 56R7 98 Accessibility	
Final Hydrostatic 2045	
T- On Location 04:01	
Initial Flow 15 T-Started 04:35 Shale Packer Sub Total -350	
Initial Shut-In 30 T-Open 07:00 Extra Packer Total 1998	-1-1-5
Final Flow 30 T-Pulled 08 55 Extra Recorder ☐ Tool Loaded @	
Final Shut-In 40 T-Out 11:08 Day Standby DAY Standby	
Comments	

Trilobite Testing Inc. shall not be liable for damage of any kind of 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 of 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.

Page 58 of 69

NO.

					- · · · · · · · · · · · · · · · · · · ·	
1. ANO. Wells	# 2-27		Test No	6	_ Date _//////20	24
Company Shakessesi	e Oil Co	usany Anc	Elevation	3206'	кв_3 <i>/96</i> ′	GL
Address 202 20 %	Nain St	Solem	UL 6	2881+1	519	
Co. Rep / Geo Kent M	latson		Rig _	he #4/		
Location: Sec. <u>27</u> 1	wp <u>165</u>	Rge. 3520	_ co. Win	<u>chita</u>	State <u>\$65</u>	 -
Interval Tested 4444 '- 45	5/0'	_ Zone Tested <u></u>	Vormation	a-13-	C	
Anchor Length 66		_ Drill Pipe Run			Mud Wt. <u>9,/</u>	
Top Packer Depth 44.39		_ Drill Collars Run			Vis <u>63</u>	
Bottom Packer Depth 4444'		_ Wt. Pipe Run			WL 8,0	
Total Depth <u>4,5/0</u> '		_ Chlorides 10,0	<u>000</u>	ppm System	LCM_ <i>2#</i>	
Blow Description 17 - Surf	ce to "					
JSJ- The Return						
77. Surface to	2.25"					
150- No Leturn	7.4/60	····		-7, ~		
~ •	MCO		/ <u>////////////////////////////////////</u>	7.5 %il	%water /	%mud
	9i ()		/ <u>/</u> // %gas	40 %oil	%water	%mud
	30' GIP		/// Wgas	%oil	%water	%mud
Rec Feet of	<u>-</u>		%gas	%oil	%water	%mud
Rec Feet of	-		%gas	<u>%oil</u>	%water	<u>%mud</u>
Rec Feet of			%gas	%oil	%water	%mud
RecFeet of			%gas	%oil	%water	%mud
Rec Total30 ⁽	внт <u>/06°</u>	Gravity 040	API RW	@ : F	Chlorides	ppm
Initial Hydrostatic 2/7	./	X Test <u>1950</u>		D Ruined	Shale Packer	
Initial Flow 22 to 2	29	X Jars 300		🗆 Ruined	Packer	
Initial Shut-In		☐ Circ Sub		Hotel _		
Final Flow 29 to 30)	☐ Hourly Standby_		CD EM Too	l Successful -350	
Final Shut-In 1072		M Mileage 56R7	98 + 98	🗆 Access	ibility	
Final Hydrostatic 2158		☐ Sampler		🗆 Gas Sa	mple	
	eation 13:17	☐ Straddle	* .	Oversiz	ed Hole	
	14:0B	☐ Shale Packer		D Sub Tot	tal1700 - 350	-
Initial Shut-In 30 T-Open_	16:23	☐ Extra Packer			3796	
Final Flow 30 T-Pulled	18:08	☐ Extra Recorder_	1d 3h 2d 14h	XTool Lo	aded <u>///19</u> @ <u>//0</u>	:00
Final Shut-In 30 T-Out 6	20:27	Day Standby X	3+14hrs	DMP/DS		· · · · · · · ·
Comments / Day	Standby	between	Dut	546	; 2 Days	and 14
after Det #	6 · I				0	<u>. </u>
U				- AA		
Approved By		Our	Representative	XVX	land	

Trilobite Testing Inc. shall not be liable for damage of any kind of 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.

Exhibit TB-2



Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name: WELLS Well Id: #2-27

Location: 1540' FSL, 1360' FWL, SW/4 Sec 27-T16S-R35W, Wichita County, Kansas

License Number: API: 15-203-20394 Region: Wichita County

Surface Coordinates: NAD83

Lat: 38.6315408; Long: -101.1790208

Bottom Hole

Coordinates: Vertical hole

Ground Elevation (ft): 3197' K.B. Elevation (ft): 3206' Logged Interval (ft): 3800' To: RTD Total Depth (ft): 4897'

Formation: Mississippian at RTD

Type of Drilling Fluid: Chemical

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: SHAKESPEARE OIL COMPANY, INC.

Address: 202 West Main Street

Salem, IL 62881 618-548-1585

WELLSITE GEOLOGIST

Name: Kent R. Matson

Company: Matson Geological Services, LLC

Address: 33300 W. 15th Street S.

Garden Plain, Kansas 67050

316-644-1975; kent4m@hotmail.com



COMMENTS

Shakespeare Oil Company, Inc., Geologist: Toby Eck, 316-305-0572 (cell).

Contractor: Duke Drilling Company, Inc.: Rig #4. Tool Pusher: Hector Torres, 620-682-3927 (cell).

Surface Casing: 8 5/8" set at 236' (KB) w/175sx cement.

Production Casing: Based on field observations of drill cuttings, DST results and electric log evaluation, the well was converted to a saltwater disposal well and 5.5" production casing was installed.

Mud by: Mud-Co/Service Mud, Inc.; Justin Whiting, 620-214-3630 (cell); Gary Schmidtberger, 785-259-2757 (cell); Reid Atkins 785-694-3741 (cell).

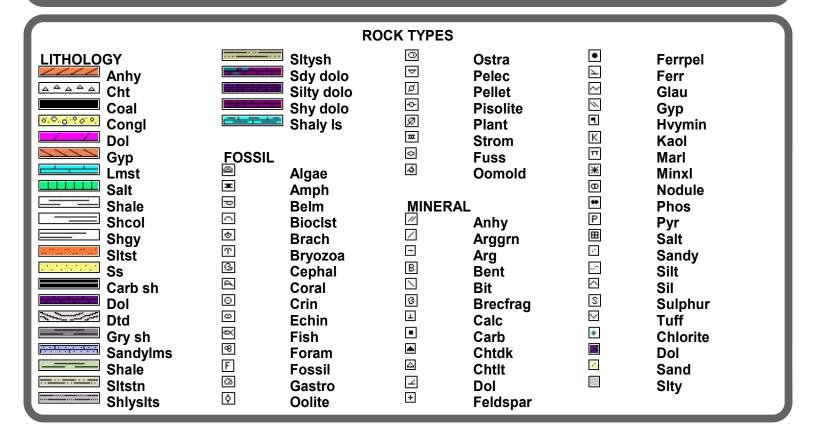
DST's by: Trilobite Testing; Spencer Staab, 785-259-0056 (cell).

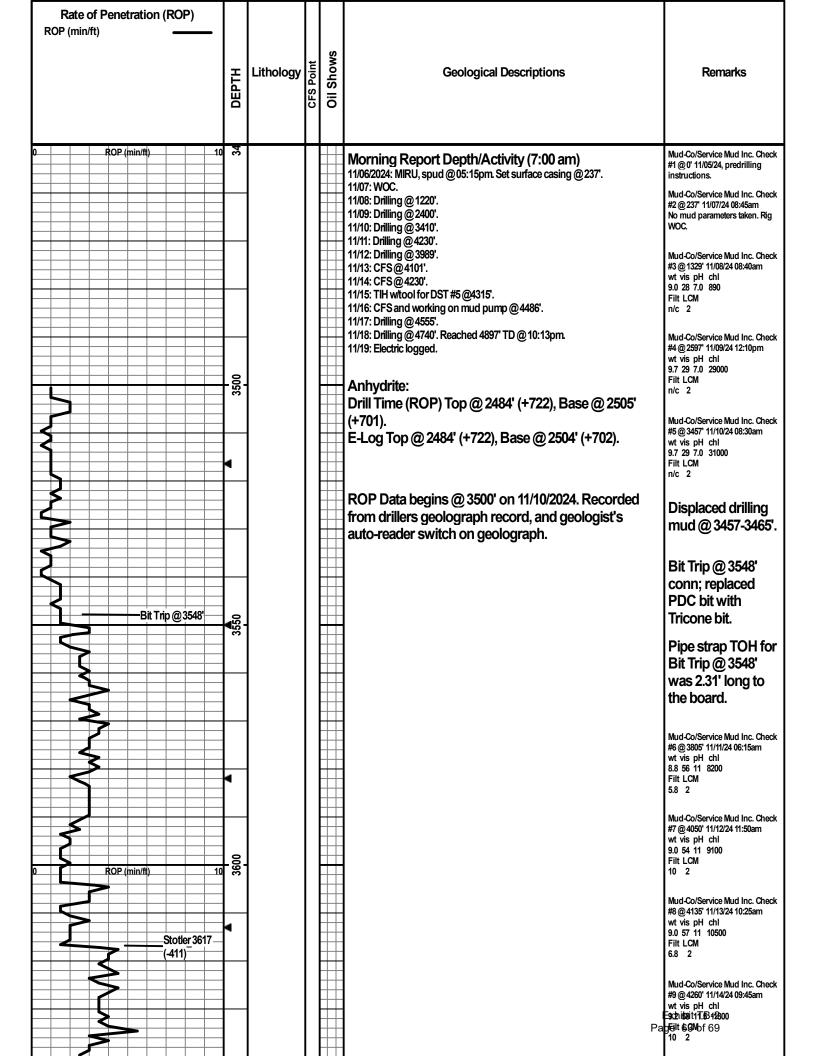
Logs by: ELI Wireline (DI w/GR, CND, Micro), Cole Robben, 785-735-7112 (office).

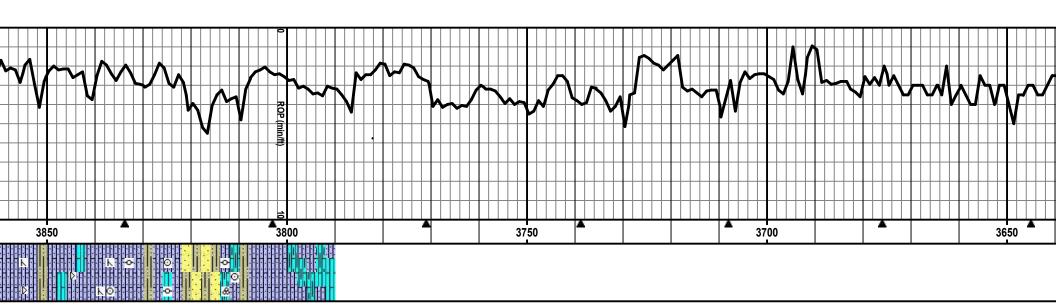
RTD= 4897' LTD= 4898'

FORMATION TOPS

FORMATION	SAMPI	LE TOPS	LOG TOPS	
	Depth	Datum	Depth	Datum
	•		•	
Stotler	3617'	-411	3620'	-414
Heebner Shale	3988'	-782	3990'	-784
Lansing	4032'	-826	4034'	-828
Muncie Creek Shale	4200'	-994	4204'	-998
Stark Shale	4298'	-1092	4299'	-1093
Hushpuckney Shale	4346'	-1140	4348'	-1142
Base of KC	4390'	-1184	4390'	-1184
Marmaton	4450'	-1244	4452'	-1246
Pawnee	4524'	-1318	4526'	-1320
Myrick Station	4565'	-1359	4566'	-1360
Fort Scott	4578'	-1372	4580'	-1374
Cherokee Shale	4606'	-1400	4608'	-1402
Johnson	4669'	-1463	4673'	-1467
Morrow	4742'	-1536	4743'	-1537
Mississippian	4808'	-1602	4808'	-1602
RTD	4897'	-1691		
LTD			4898'	-1692







Formation tops and lithologies have been adjusted to correlate to the electric log.

Cil Shows indicator. Left Block 0-10 tray pcs w/show, Middle Block 10-20 tray pcs w/show, Right Block 20+ tray pcs w/show.

NOTE: RED TEXT INDICATES THE PRESENCE OF OIL.

Drill cutting samples at 10' intervals start at 3800'.

LS: wht/cm/lt bm/min lt gry, micro-mxtal, some silty/sndy/arg, chalky, foss frags, no vis por, no odor, ns.

LS: cm/lt bm/lt gry, vf-mxtal, silty/sndy, chalky, foss frags/fusln, no vis por, no odor, ns.

LS: cmn/ltbrn/lt-m gry, vf-m xtal, vry silty/sndy/arg, chalky, foss frags/crin/fusln/ool, no vis por, no odor, ns.

SH: ltdk gry/red-brn, silty/sndy, carb, soft-firm. SS: lt gry/lt red-brn, vf-f, sr-wr, arg, carb matrix,soft, friable, no odor, ns.

LS: crmft bm/ft gry, micro-mxtal, chalky, some sity/sndy, foss frags/crin-ool, no vis por, no odor, ns.

LS: crm/t bm/min tt gry, vf-m xtal, chalky, sitty/sndy, min dolomitic, foss frags/crin/ool, vf-f in-xtal por, no odor, ns.

LS: cm/lt-mgry/lt bm, vf-mxtal, mostly silty/sndy, chalky, min wht/lt gry tripolitic chert, foss frags, min vf in-xtal por, no odor, ns.

Mud-Co/Service Mud Inc. Check #10@43/5 11/15/24 10:15am wt vis pH chl 9.2 59 11 9000 Filt LCM 9.6 2

9.6 2

Mud-Co/Service Mud Inc. Check #11@ 4491 11/16/24 09:10am wt vis pH chi
9.1 63 11.5 10000

Filt LCM

8.0 2

Geologist on location @ 3654', 11/10/2024.

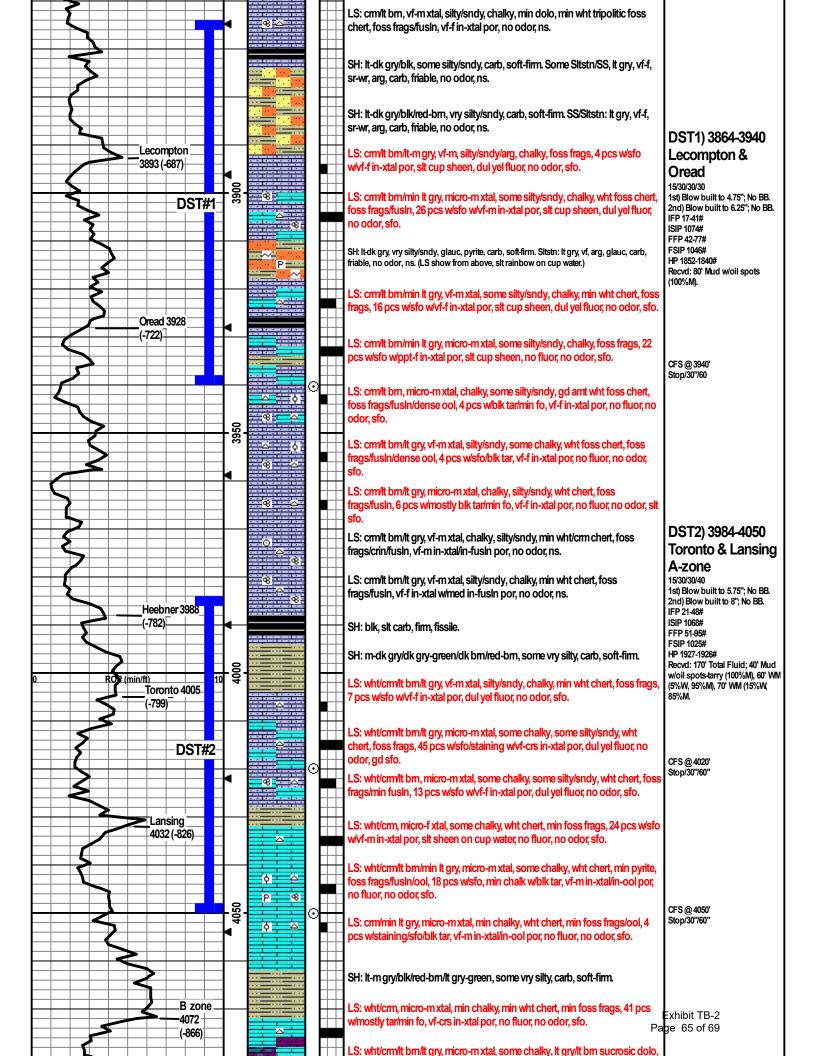
Mud-Co/Service Mud Inc. Check #12@ 4570 1/1/7/24 09:00am wr vis pH chi 9.2 67 10 11000 Filt LCM 9.6 2

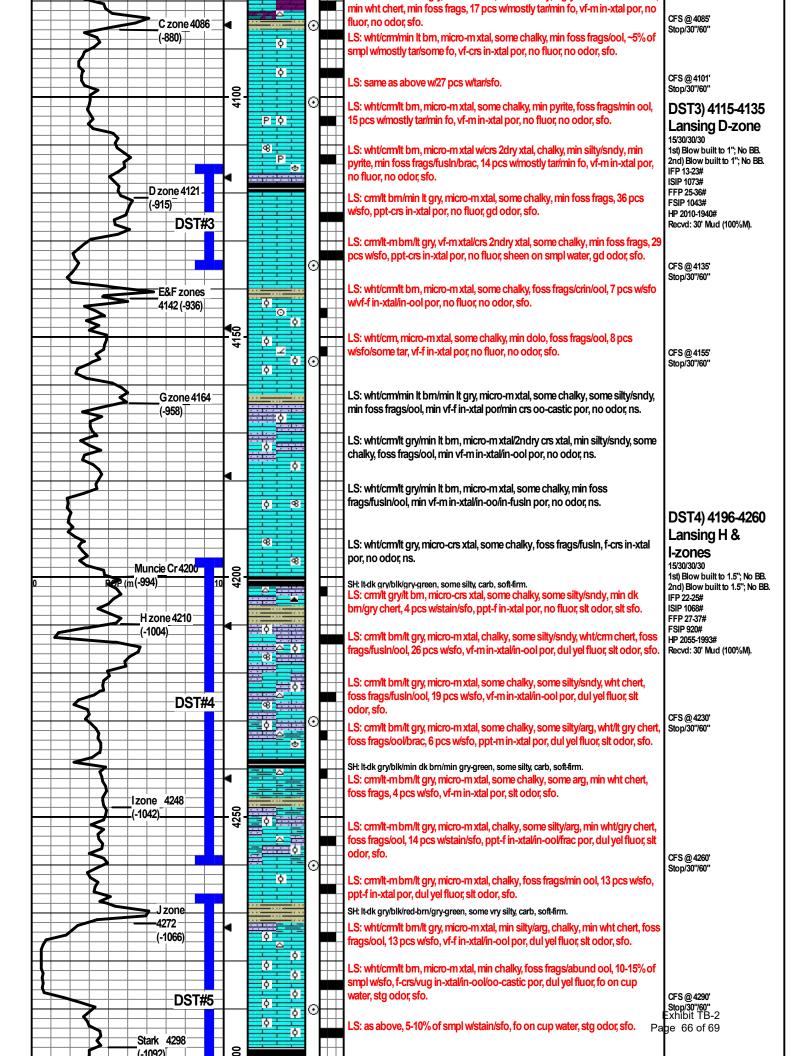
Mud-Co/Service Mud Inc. Check #13 @ 4708* 11/18/24 04:10am wt vis pH chl 9.4 67 9 10000 Filt LCM

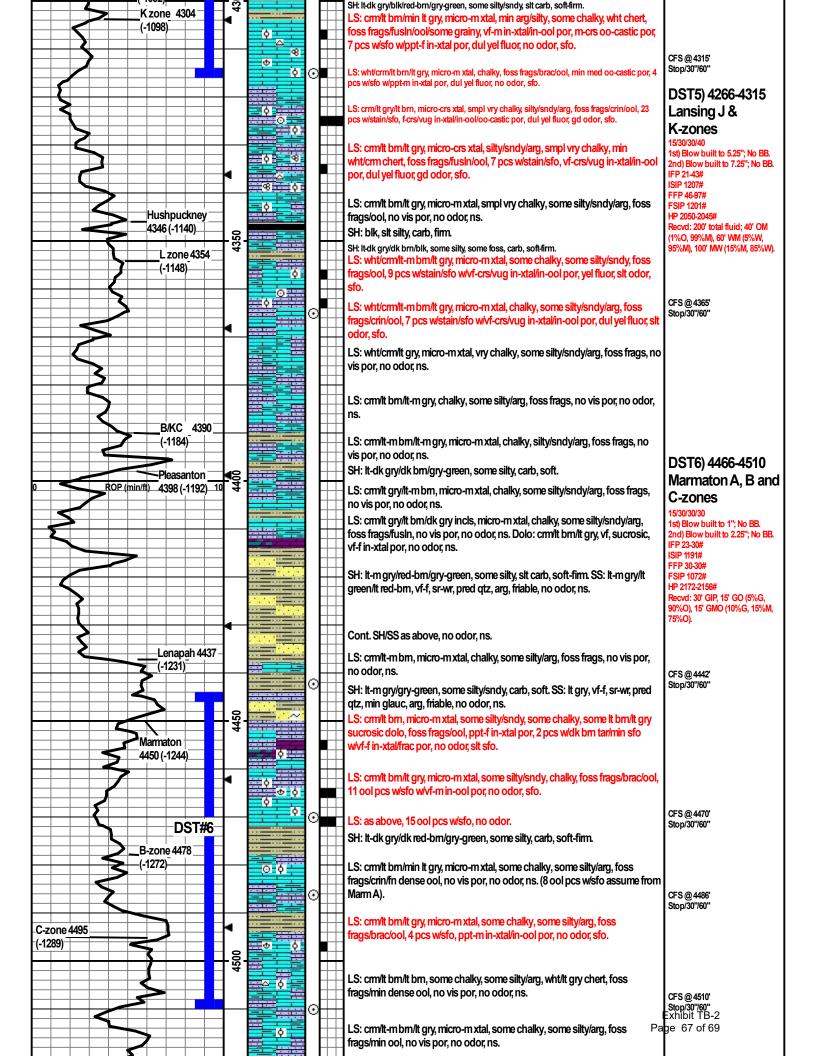
Deg @ Ft
0.00 @ 237
0.75 @ 836
0.75 @ 1181'
0.25 @ 1682'
0.75 @ 2180'
0.75 @ 2681'
0.50 @ 3550'
0.50 @ 4260'
0.50 @ 4897

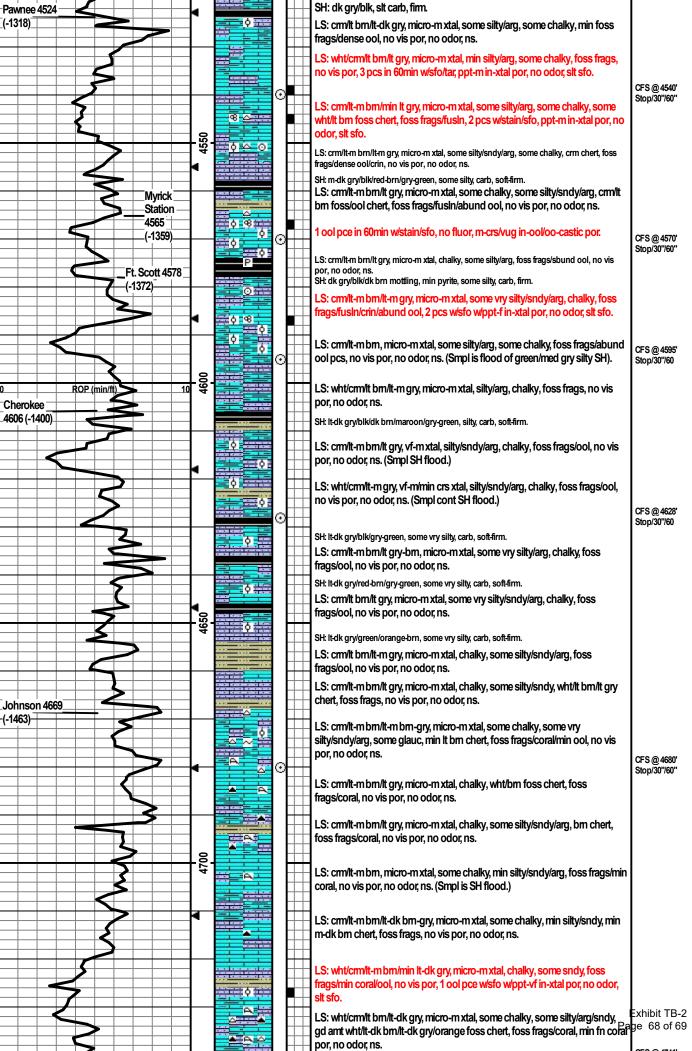
Survey Record

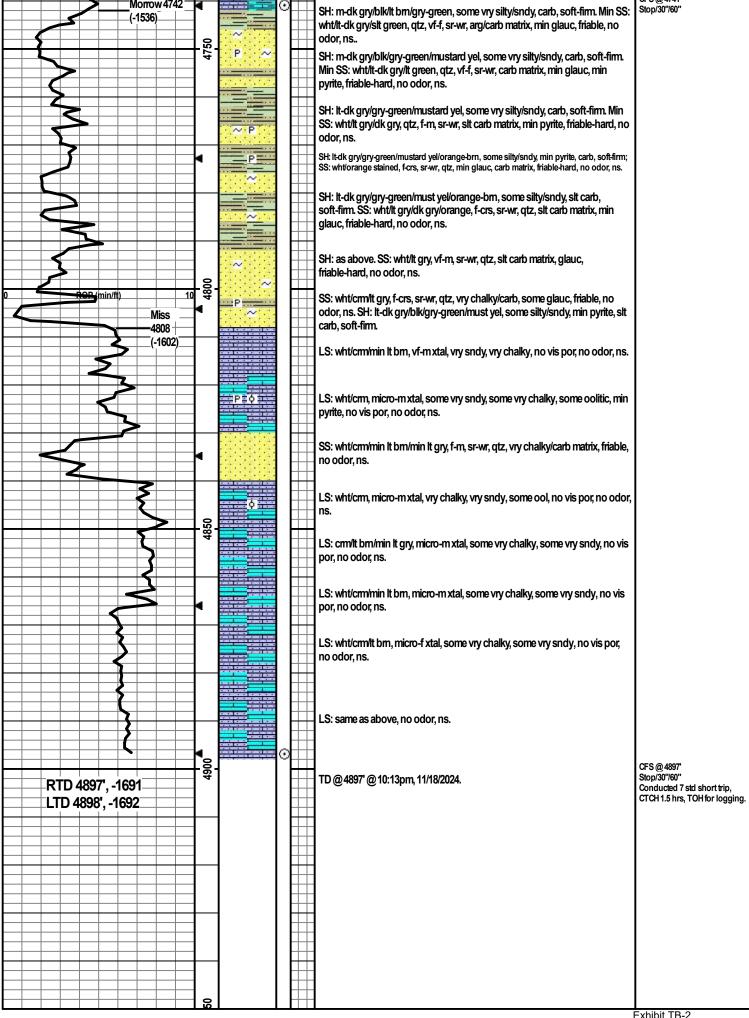
LS: crm/min It bm/min It gry, vf-f xtal, silty/sndy, chalky, min dolo, min wht tripolitic chert, foss frags, min vf-f dolo in-xtal por, no odor, ns.

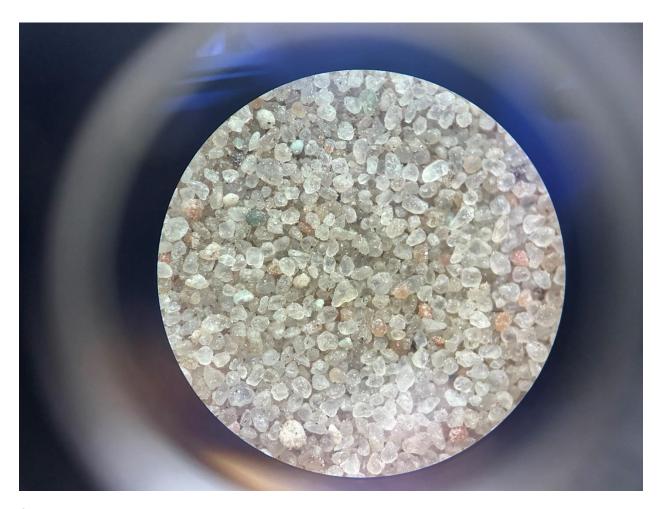












Sample from Wells #2-27
Well sorted, Fine grained quartz sand



Sample from Wells #2-27

Well sorted, Fine grained quartz sand

 From:
 Jake Eastes [KCC]

 To:
 Todd Bryant [KCC]

 Cc:
 Kelcey Marsh [KCC]

 Subject:
 Tops Project

Date: Friday, October 24, 2025 2:23:17 PM

Todd,

The perfs from 1452' – 1476' are not in the Whitehorse formation, I believe that this sand zone is actually the base of the Morrison or Jurassic aged rocks. This sand appears in both the Wells #2-27 and the Omaha #1-14. Ginger Oil Company's Whitham & Sons #13-1 located further to the West in Sec. 13 – 16S – 36W, Wichita County also showed this sand being present and a little thicker in comparison to the Wells #2-27 and the Omaha #1-14. Therefore, this leads me to believe that this sand is not a lense or random channel but is a sand that is consistently reported as being part of the lower Morrison formation. (i.e. Entrada Sand formation of Colorado and other Western States).

The perfs from 1522' – 1582' are most likely in the Whitehorse formation but one interpretation I had showed this perforated interval being just in the Big Basin formation and a Whitehorse formation top picked at 1600' due to the presence of some interbedded dolomites.

The perfs from 1800' – 2000' are clearly in the Blaine formation, the Density/Neutron/PE Log is showing a halite/salt response through the entire perforated interval. The Neutron Porosity is in the negatives while the Density Porosity is showing values greater than 30pu. The PE values are holding steady through the entire section as well. This thick salt section within the Blaine formation I know is also seen in Hamilton and Kearny Counties just to the South and Southwest

The Cedar Hills formation in the Wells #2-27 is actually thinner than in other areas of Western/SW Kansas. I had a top picked for it at 2075' and a base picked at 2155'

Jake Eastes, *Professional Geologist*Conservation Division
Kansas Corporation Commission
266 N Main St., Ste 220 | Wichita, KS | 67202
Office (316) 337-6216 | Cell (316) 217-5478

CERTIFICATE OF SERVICE

25-CONS-3411-CUIC

I, the undersigned, certify that a true and correct copy of the attached Testimony has been served to the following by means of electronic service on October 24, 2025.

TODD BRYANT, GEOLOGIST SPECIALIST KANSAS CORPORATION COMMISSION 266 N. Main St., Ste. 220 WICHITA, KS 67202-1513 todd.bryant@ks.gov

JONATHAN R. MYERS, ASSISTANT GENERAL COUNSEL KANSAS CORPORATION COMMISSION 266 N. Main St., Ste. 220 WICHITA, KS 67202-1513 jon.myers@ks.gov

DAVID E. BENGTSON, ATTORNEY STINSON LEONARD STREET LLP 1625 N WATERFRONT PKWY STE 300 WICHITA, KS 67206 david.bengtson@stinson.com KELCEY MARSH, LITIGATION COUNSEL KANSAS CORPORATION COMMISSION CENTRAL OFFICE 266 N. MAIN ST, STE 220 WICHITA, KS 67202-1513 kelcey.marsh@ks.gov

JANESSA VANDEVEER SHAKESPEARE OIL CO., INC. 202 W MAIN ST SALEM, IL 62881-1519

/s/ Sara Graves

Sara Graves