

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
CASING MECHANICAL INTEGRITY TEST**

Form U-7  
August 2019

Disposal:  Enhanced Recovery:  KCC District No.: \_\_\_\_\_  
 Operator License No.: \_\_\_\_\_ Name: \_\_\_\_\_  
 Address 1: \_\_\_\_\_  
 Address 2: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_  
 Contact Person: \_\_\_\_\_ Phone: (\_\_\_\_) \_\_\_\_\_

API No.: \_\_\_\_\_ Permit No.: \_\_\_\_\_  
 \_\_\_ - \_\_\_ - \_\_\_ - \_\_\_ Sec. \_\_\_ Twp. \_\_\_ S. R. \_\_\_  East  West  
 \_\_\_\_\_ Feet from  North /  South Line of Section  
 \_\_\_\_\_ Feet from  East /  West Line of Section  
 Lease: \_\_\_\_\_ Well No.: \_\_\_\_\_  
 County: \_\_\_\_\_

Well Construction Details:  New well  Existing well with changes to construction  Existing well with no changes to construction

Maximum Authorized Injection Pressure: \_\_\_\_\_ psi Maximum Injection Rate: \_\_\_\_\_ bbl/d

	<i>Conductor</i>	<i>Surface</i>	<i>Intermediate</i>	<i>Production</i>	<i>Liner</i>	<i>Tubing</i>
Size: _____	_____	_____	_____	_____	_____	Size: _____
Set at: _____	_____	_____	_____	_____	_____	Set at: _____
Sacks of Cement: _____	_____	_____	_____	_____	_____	Type: _____
Cement Top: _____	_____	_____	_____	_____	_____	
Cement Bottom: _____	_____	_____	_____	_____	_____	

Packer Type: \_\_\_\_\_ Set at: \_\_\_\_\_

DV Tool  Port Collar Depth of: \_\_\_\_\_ feet with \_\_\_\_\_ sacks of cement TD (and plug back): \_\_\_\_\_ feet depth

**Zone of Injection** Formation: \_\_\_\_\_ Top Feet: \_\_\_\_\_ Bottom Feet: \_\_\_\_\_ Perf. or Open Hole: \_\_\_\_\_

Is there a Chemical Sealant or a Mechanical Casing patch in the annular space?  Yes  No

**If Dual Completion** - Injection is:  Above Production  Below Production

**FIELD DATA**

GPS Location: Datum:  NAD27  NAD83  WGS84 Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Date Acquired: \_\_\_\_\_

MIT Type: \_\_\_\_\_ MIT Reason: \_\_\_\_\_

Time in Minute(s): \_\_\_\_\_

Pressures: Set up 1 \_\_\_\_\_

Set up 2 \_\_\_\_\_

Set up 3 \_\_\_\_\_

Tested:  Casing  or Casing - Tubing Annulus System Pressure during test: \_\_\_\_\_ Bbls. to load annulus: \_\_\_\_\_

Test Date: \_\_\_\_\_ Using: \_\_\_\_\_ Company's Equipment

The zone tested for this well is between \_\_\_\_\_ feet and \_\_\_\_\_ feet.

The test results were verified by operator's representative:

Name: \_\_\_\_\_ Title: \_\_\_\_\_ Phone: (\_\_\_\_) \_\_\_\_\_

<p><b>KCC Office Use Only</b></p> <p>The results were:</p> <p><input type="checkbox"/> Satisfactory</p> <p><input type="checkbox"/> Not Satisfactory</p> <p>Next MIT: _____</p>	<p>State Agent: _____ Title: _____ Witness: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Remarks: _____</p>
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Form	U7 - Casing Mechanical Integrity Test
Operator	Ritchie Exploration, Inc.
Well Name	SAUER A 5
Doc ID	1798635

Injection Zones

FormationName	Top	Bottom
LANSING-KANSAS CITY	3883	3886
LANSING-KANSAS CITY	4002	4005
LANSING-KANSAS CITY	4041	4044

Design Approval

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
APPLICATION FOR INJECTION WELL

Form U-1  
November 2011  
Form must be Typed  
Form must be Signed  
All blanks must be Filled

Disposal   
Enhanced Recovery:  Repressuring  
 Waterflood  
 Tertiary  
Date: September 01, 2014  
Operator License Number: #34392  
Operator: TexKan Exploration LLC  
Address: P.O. Box H  
Plainville, Kansas 67663  
Contact Person: Bill Robinson  
Phone: 785-688-4040  
Email:

Permit Number: E-31,314  
API Number: 15-065-23930-00-02  
Well Location  
E2 - SW - SE Sec. 28 Twp. 09 S. R. 25  E  W  
660 feet from  N /  S Line of Section  
1650 feet from  E /  W Line of Section  
GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)  
Datum:  NAD27  NAD83  WGS84  
Lease Description: SE/4 Sec. 28-09s-25w  
Lease Name: Sauer A Well Number: 5  
Field Name: Bollig  
County: Graham  
Deepest Usable Water  
Formation: Dakota  
Depth to Bottom of Formation: 1360'

Check One:  Old Well Being Converted  Newly Drilled Well  Well to be Drilled  
Surface Elevation: 2562 feet Well Total Depth: 4150 feet Plug Back Depth: 4138 feet  
Datum of top of injection formation: -1281 feet (reference mean sea level)

Injection Formation Description:  
Name Lansing-Kansas City top / bottom 3843 / 4074 perf / open hole Perforations at 3998 to 4002 depth feet  
\_\_\_\_\_ / \_\_\_\_\_ at \_\_\_\_\_ to \_\_\_\_\_ feet

List of Wells/Facilities Supplying Produced Saltwater or Other Fluids Approved by the Conservation Division:  
(attach additional sheets if necessary)

Lease Operator	Lease/Facility Name	Lease/Facility Description	Well ID & Spot Location
1. (SEE ATTACHMENT)			
2.			
3.			
Producing Formation	Strata Depth	Total Dissolved Solids (if available)	
1. (SEE ATTACHMENT)	_____ to _____ feet	_____ mg/l	
2.	_____ to _____ feet	_____ mg/l	
3.	_____ to _____ feet	_____ mg/l	
Maximum Requested Liquid Injection Rate:	1000 bbls / day; or		
Maximum Requested Gas Injection Rate:	_____ scf / day. Type of Gas: N/A		
Maximum Requested Injection Pressure:	900 psig		

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

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WICHITA, KS

**Wells/Facilities Supplying Produced Saltwater or Other Fluids Approved by the Conservation**  
 on:

	Lease Operator	Lease/Facility Name	Lease/Facility Description	Well ID & Spot Location
1.	TexKan Exploration, LLC	Sauer	SE/4 28-09s-25w	#1 A, NW SW SE/4
2.	TexKan Exploration, LLC	Sauer	SE/4 28-09s-25w	A #2, C SE/4
3.	TexKan Exploration, LLC	Sauer	SE/4 28-09s-25w	A #3, E/2 NW SE/4
4.	TexKan Exploration, LLC	Sauer	SE/4 28-09s-25w	A #7, SE NE SE/4
5.				
6.				
7.				
8.				

	Producing Formation	Strata Depth		Total Dissolved Solids (if available)	mg/l
1.	Lansing-Kansas City	3984	to 3988 feet	N/A	mg/l
2.	Lansing-Kansas City	3998	to 4004 feet	N/A	mg/l
3.	Lansing-Kansas City	4014	to 4020 feet	N/A	mg/l
4.	Lansing-Kansas City		to feet	N/A	mg/l
5.			to feet		mg/l
6.			to feet		mg/l
7.			to feet		mg/l
8.			to feet		mg/l

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Completion

Tubing & Packer       Packerless       Tubingless

	Conductor	Surface	Intermediate	Production	Tubing
Size		8 5/8"		5 1/2"	2 3/8"
Setting Depth		255'		4138'	3965'
Amount of Cement		160 sks.		110 sks.	
Top of Cement		Surface		Est. 3590'	
Bottom of Cement		255'			

If Alternate II cementing, complete the following:

Perforations / D.V. Tool at 2122 feet, cemented to Surface feet with 495 sx.

Tubing: Type Lined Steel Grade J-55

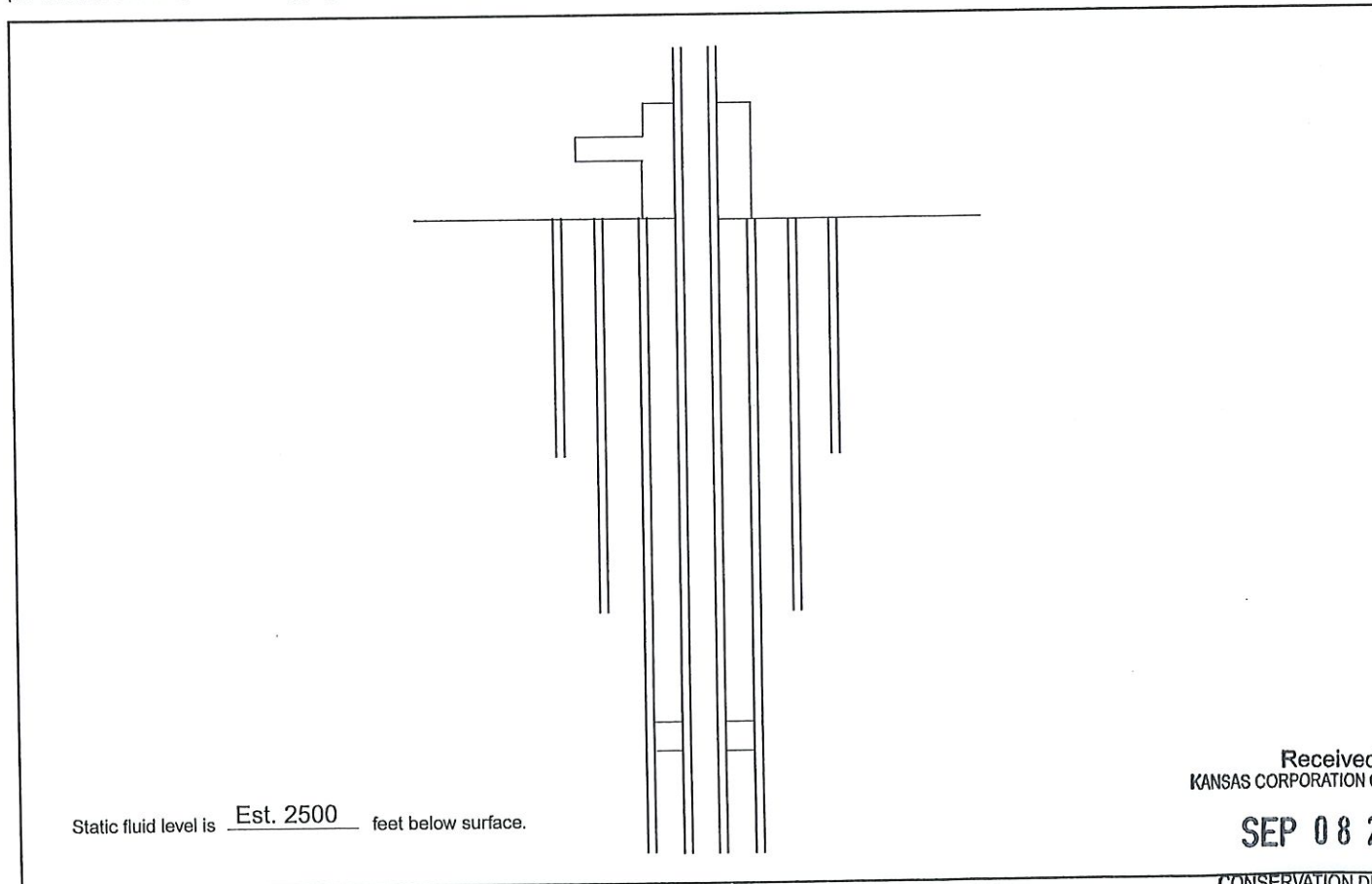
Packer: Type Coated AD-1 Depth 3965'

Annulus Corrosion Inhibitor: Type Treated Fresh Water Concentration Manufacturer Recommendation

List Logs Enclosed: To be submitted with ACO-1

Well Sketch

(To sketch installation, darken the appropriate lines, indicate cement, and show depths.)



Static fluid level is Est. 2500 feet below surface.

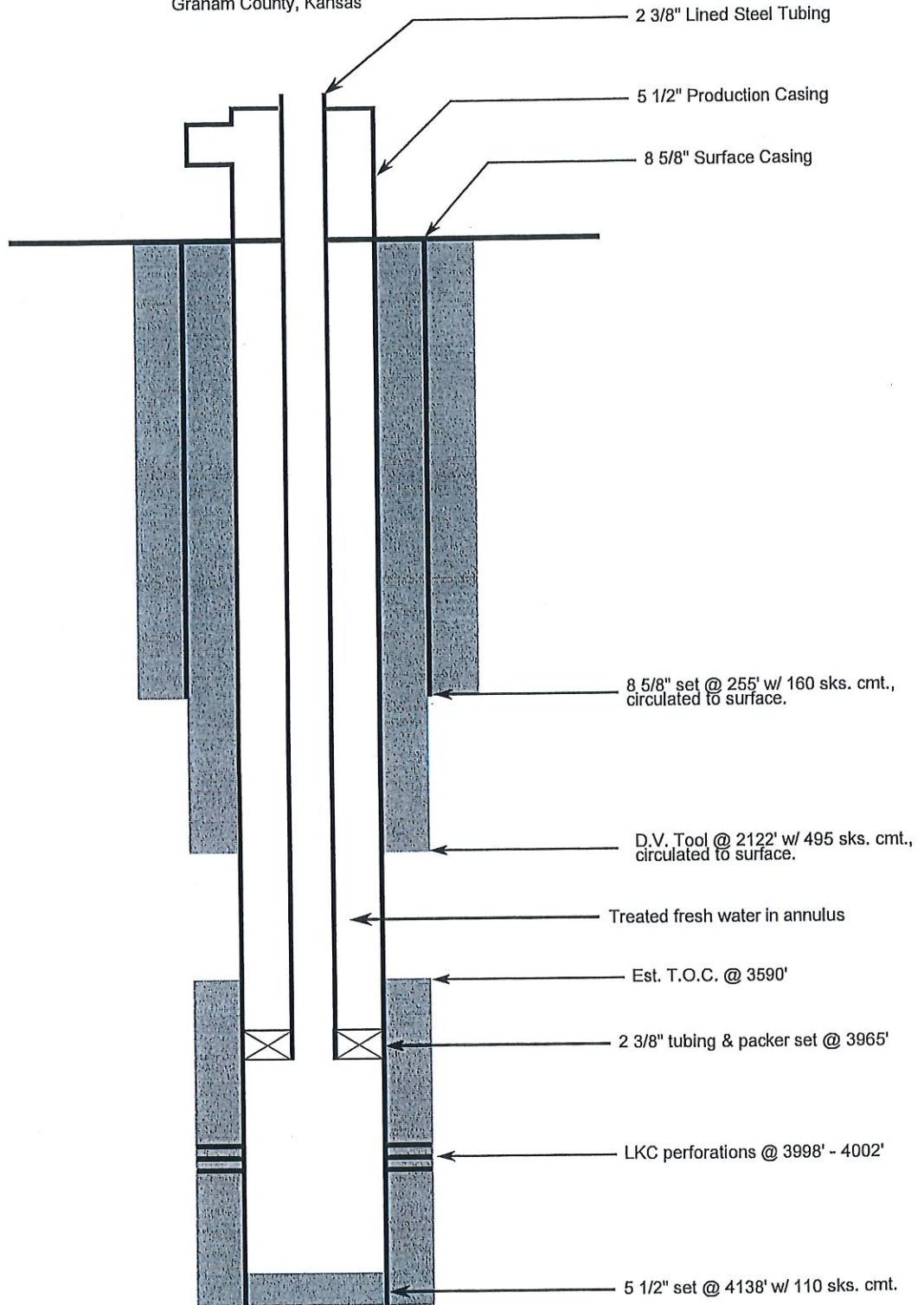
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WICHITA, KS



TexKan Exploration LLC #34392  
 Sauer A #5 Injection Well, located  
 E/2 SW SE/4 Sec. 28-09s-25w  
 Graham County, Kansas



Static fluid level is Est. 2500 feet below surface

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**SEP 08 2014**  
 CONSERVATION DIVISION  
 WICHITA, KS

CASING MECHANICAL INTEGRITY TEST

E-31,314 New well  
DOCKET # E-31,

Disposal Well  Enhanced Recovery:  
Repressuring   
Flood   
Tertiary

E2 SW 5K, Sec 28, T 09 S, R 25 E/W  
660 Feet from South Section Line  
1650 Feet from East Section Line

Date injection started \_\_\_\_\_  
API #15-065-23930-000, 2.

Lease Sauer A Well # 5  
County Graham

Operator: Tex Kan Exp.  
Name & Address PO Box H  
Plainville KS 67663

Operator License # 34392  
Contact Person Tom Berens  
Phone 785 639 5727

KCC  
OCT 17 2014  
HAYS, KS

Max. Auth. Injection Press. \_\_\_\_\_ Psi; Max Inj. Rate \_\_\_\_\_ bbl/d;  
If Dual Completion - Injection above production \_\_\_\_\_ Injection below production \_\_\_\_\_  
Conductor Surface Production Liner Tubing  
Size \_\_\_\_\_ 8 5/8" 5 1/2" \_\_\_\_\_ Size 2 7/8"  
Set at \_\_\_\_\_ 255' 4138' \_\_\_\_\_ Set at 3850'  
Cement Top \_\_\_\_\_ 160XS 110XS \_\_\_\_\_ Type ST  
Bottom \_\_\_\_\_  
DV Perf. 2089' 475XS TD (and plug back) 4150 PB 4138' ft. depth  
Packer type Arrow Set Size 5 1/2 Set at 3850'  
Zone of injection 3883 LKC ft. to ft. 4044 Perf. or open hole Perf. 4041 - 4044"

Type MIT: Pressure:  Radioactive Tracer Survey:  Temperature Survey:   
3883' - 3886'

F Time: Start 0 Min. 15 Min. 30 Min.  
I  
E Pressures: 350 350 350 Set up 1 System Pres. during test \_\_\_\_\_  
L Set up 2 Annular Pres. during test \_\_\_\_\_  
D Set up 3 Fluid loss during test \_\_\_\_\_ bbls.

T Tested: Casing  or Casing - Tubing Annulus

The bottom of the tested zone in shut in with A packer  
Test Date 10-16-14 Using Heartland Tank Company's Equipment  
The operator hereby certifies that the zone between 0 feet and 3850 feet  
was the zone tested by Tom Berens  
Signature Title

The results were Satisfactory , Marginal \_\_\_\_\_, Not Satisfactory \_\_\_\_\_  
State Agent: MARV Mills Title: PRT II Witness: YES  NO  PASSED  
REMARKS: New well 10-17-15 called operator, entire LKC permitted

Origin. Conservation Div.:  KDHE/T:  Dist. Office  
 Computer Update Is there Chemical Sealant or a Mechanical Casing patch in the annular space? (Y/N)   
GPS Lat 39 23513 GPS Long 100.11356 (If YES please describe in REMARKS)  
KCC Form U-7