



# TEMPORARY ABANDONMENT WELL APPLICATION

OPERATOR: License# \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Address 1: \_\_\_\_\_  
 Address 2: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_  
 Contact Person: \_\_\_\_\_  
 Phone: (\_\_\_\_) \_\_\_\_\_  
 Contact Person Email: \_\_\_\_\_  
 Field Contact Person: \_\_\_\_\_  
 Field Contact Person Phone: (\_\_\_\_) \_\_\_\_\_

API No. 15- \_\_\_\_\_  
 Spot Description: \_\_\_\_\_  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  E  W  
 \_\_\_\_\_ feet from  N /  S Line of Section  
 \_\_\_\_\_ feet from  E /  W Line of Section  
 GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)  
 Datum:  NAD27  NAD83  WGS84  
 County: \_\_\_\_\_ Elevation: \_\_\_\_\_  GL  KB  
 Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_  
 Well Type: (check one)  Oil  Gas  OG  WSW  Other: \_\_\_\_\_  
 SWD Permit #: \_\_\_\_\_  ENHR Permit #: \_\_\_\_\_  
 Gas Storage Permit #: \_\_\_\_\_  
 Spud Date: \_\_\_\_\_ Date Shut-In: \_\_\_\_\_

	Conductor	Surface	Production	Intermediate	Liner	Tubing
Size						
Setting Depth						
Amount of Cement						
Top of Cement						
Bottom of Cement						

Casing Fluid Level from Surface: \_\_\_\_\_ How Determined? \_\_\_\_\_ Date: \_\_\_\_\_  
 Casing Squeeze(s): \_\_\_\_\_ to \_\_\_\_\_ w / \_\_\_\_\_ sacks of cement, \_\_\_\_\_ to \_\_\_\_\_ w / \_\_\_\_\_ sacks of cement. Date: \_\_\_\_\_  
(top) (bottom) (top) (bottom)  
 Do you have a valid Oil & Gas Lease?  Yes  No  
 Depth and Type:  Junk in Hole at \_\_\_\_\_  Tools in Hole at \_\_\_\_\_ Casing Leaks:  Yes  No Depth of casing leak(s): \_\_\_\_\_  
(depth) (depth)  
 Type Completion:  ALT. I  ALT. II Depth of:  DV Tool: \_\_\_\_\_ w / \_\_\_\_\_ sacks of cement  Port Collar: \_\_\_\_\_ w / \_\_\_\_\_ sack of cement  
(depth) (depth)  
 Packer Type: \_\_\_\_\_ Size: \_\_\_\_\_ Inch Set at: \_\_\_\_\_ Feet  
 Total Depth: \_\_\_\_\_ Plug Back Depth: \_\_\_\_\_ Plug Back Method: \_\_\_\_\_

**Geological Data:**

Formation Name	Formation Top	Formation Base	Completion Information
1. _____	At: _____	to _____ Feet	Perforation Interval _____ to _____ Feet or Open Hole Interval _____ to _____ Feet
2. _____	At: _____	to _____ Feet	Perforation Interval _____ to _____ Feet or Open Hole Interval _____ to _____ Feet

UNDER PENALTY OF PERJURY I HEREBY ATTEST THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE

Submitted Electronically

<b>Do NOT Write in This Space - KCC USE ONLY</b>	Date Tested: _____	Results: _____	Date Plugged: _____	Date Repaired: _____	Date Put Back in Service: _____
	Review Completed by: _____ Comments: _____				
TA Approved: <input type="checkbox"/> Yes <input type="checkbox"/> Denied Date: _____					

**Mail to the Appropriate KCC Conservation Office:**

	KCC District Office #1 - 210 E. Frontview, Suite A, Dodge City, KS 67801	Phone 620.225.8888
	KCC District Office #2 / UPGS - 3450 N. Rock Road, Building 600, Suite 601, Wichita, KS 67226	Phone 316.630.4000
	KCC District Office #3 - 1500 SW Seventh Steet, Chanute, KS 66720	Phone 620.432.2300
	KCC District Office #4 - 2301 E. 13th Street, Hays, KS 67601-2651	Phone 785.625.0550



RECEIVED

JUL 31 2012

REGULATORY DEPT  
SANDRIDGE ENERGY

THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS  
CONSERVATION DIVISION

DISPOSAL WELL PERMIT

Oper. License #: 34192 Permit: D-31255  
 Operator: SandRidge E & P, LLC. Well Name & No.: Tiffany SWD #2821 1-11  
 Address: 123 Robert S. Kerr Ave. Location: 5030' FSL 250' FEL  
 City: Oklahoma City Sec. 11 Twp 28 Rge 21 ()(E) (x)(W)  
 State: Oklahoma County: Ford  
 Zip Code: 73102 Field Name: Pleasant Valley

**Project Acreage:** A 11.71 acre tract in NE/4 – Sec. 11-T28S-R21W

After reviewing the operator's application for Disposal Well Permit dated June 18, 2012, the Conservation Division grants a permit for the injection of produced saltwater or other fluids approved by the Conservation Division. The permitted well is subject to the specifications and requirements of this permit including any attachments or any attached amendments.

- The injection formation is known as the Arbuckle.
- The depth of the permitted injection interval is from 5800' to 6469', ()( PF), (x)(OH)
- The maximum authorized injection rate is 60000 barrels of fluid per day.
- The maximum authorized injection pressure is 1700 PSIG.
- Attachment ()YES, (x)NO.

Complete casing information is as follows:

	<u>SIZE</u>	<u>SEAT DEPTH</u>	<u>INTERVAL CEMENTED</u>	<u>SACKS CEMENT USED</u>
Conductor	20"	100'	100' to 0'	10 (yds)
Surface	9-5/8"	1001'	1001' to 0'	465
Production	7"	5800'	5800' to 3570'	310
Tubing	4-1/2"	5790'		

Packer type and setting depth: Baker AS-1X @ 5790'

Well(s), Lease(s) and Facilities supplying fluid for injection:

<u>Lease Operator</u>	<u>Lease Name</u>	<u>Lease Description</u>
SandRidge E & P, LLC	Bones	Sec. 11-T28S-R21W

In addition to the specific permit conditions and requirements set out above or on the attachment hereto, this permit is subject to all of the provisions of K.A.R. 83-3-400 et seq. Injection authority cannot be transferred without approval of the Conservation Division.

Date of Approval: 07/27/2012

Director, Underground Injection Control  
Conservation Division

CASING MECHANICAL INTEGRITY TEST

DOCKET # D31.255

Disposal  Enhanced Recovery:

NE NE NE NE, Sec 11, T 28 S, R 21 E/W

Repressuring   
Flood   
Tertiary

250<sup>FNL</sup> (5140) Feet from South Section Line  
280 (234) Feet from East Section Line

Date injection started \_\_\_\_\_  
API #15 - 057 - 20814-00-00

Lease Tiffany Swd Well # 2821 1-11  
County Ford

Operator: Sand Ridge Exploration  
Name &  
Address 123 Robert S Kerr Ave.

Operator License # 34192  
Contact Person Corey Ratzlaff

Oklahoma City, OK 73102 Phone 405-394-3271

Max. Auth. Injection Press. 2000 psi; Max. Inj. Rate 60,000 bbl/d;  
If Dual Completion - Injection above production \_\_\_\_\_ Injection below production \_\_\_\_\_

Size	Conductor	Surface	Production	Liner	Size	Tubing
	<u>20"</u>	<u>9 5/8"</u>	<u>7"</u>		<u>4 1/2"</u>	
Set at	<u>100'</u>	<u>1001'</u>	<u>5800'</u>		Set at	<u>5790</u>
Cement Top	<u>0</u>	<u>0</u>	<u>3570'</u>		Type	<u>3-55 LT#2 JK-15</u>
" Bottom	<u>100'</u>	<u>1001'</u>	<u>5800'</u>			<u>IPK</u>
DV/Perf.			TD (and plug back)	<u>6469</u>		ft. depth
Packer type	<u>Arrow set 1X coated</u>	Size	<u>7" x 3 1/2"</u>	Set at	<u>5790</u>	
Zone of injection	<u>Arbuckle</u>	ft. to ft.	<u>5800-6469</u>	Perf. or open hole	<u>Open hole</u>	

Type Mit: Pressure  Radioactive Tracer Survey  Temperature Survey

Time: Start 905 Min. 15 Min. 30 Min.

Pressures: 415 410 410 Set up 1 | System Pres. during test Ø  
Set up 2 | Annular Pres. during test 415-410  
Set up 3 | Fluid loss during test Ø bbls.

Tested: Casing  or Casing - Tubing Annulus

The bottom of the tested zone is shut in with A Packer

Test Date 7-24-12 Using Heat Waves Hot oil Service Company's Equipment

The operator hereby certifies that the zone between 0 feet and 5790 feet

was the zone tested Corey Ratzlaff Signature Producer's Assessor Title

The results were Satisfactory , Marginal \_\_\_\_\_, Not Satisfactory \_\_\_\_\_

State Agent Daniel Bemosen Title ES II Witness: Yes  No \_\_\_\_\_

REMARKS: 5 year retest Initial test 8' off tail pipe on bottom

Origin. Conservation Div.;  KDHE/T;  Dist. Office;  
 Computer Update

GPS entered

37.63052  
-99.57719

KCC Form U-7 6/84

*Handwritten mark*

APPLICATION REVIEW

DATE RECEIVED UIC 6/18/12

Page      of     

Operator: Sand Ridge E+P, LLC License# 34192 Docket# D-31255

Caption Acreage: A 11.71 Acre tract in NE/4 - Sec 11-28s - 21w

Lease: Tiffany SWD Field: Pleasant Valley County Ford

WELL INFORMATION

Well Name/#: Tiffany SWD #2821 1-11 API#:15- 057 - 20814-0000

Location: 5030 FSL sec line 250 FFL sec line NE - NE - NE SEC 11 TWP 28 S-RNG 21 E W Elev: 2343 GL/KB

Casing & Cement:	Conductor	Surface	Production	Liner	Tubing	DV / Port Coller Addn'l Cementing	Squeeze
Size	<u>20</u> "	<u>998</u> "	<u>7</u> "		<u>4 1/2</u> "	_____ type	_____ type
Setting Depth	<u>100</u> '	<u>1001</u> '	<u>5800</u> '		<u>5790</u> '		
Sacks Cement	<u>10 yds SX</u>	<u>465</u> SX	<u>310</u> SX				
Cement Top	<u>0</u> '	<u>0</u> '	<u>3570</u> '				
Cemented Interval	<u>100</u> ' to <u>0</u> '	<u>1001</u> ' to <u>0</u> '	<u>5800</u> ' to <u>3570</u> '				
Cement Circulated	Yes / No	Yes / No	Yes / No	Yes / No			

Total Depth: 6469 ' PBTD: \_\_\_\_\_ Annulus Fluid HEFE HCl 15% Addn'l Protection: Yes / No

Tubing Type & Depth 4 1/2 Seal/ite @ 5790 ' Packer Type & Depth AS-1X @ 5790 '

Injection Formation(s): Arbuckle Source of Injected Fluid: (Formation): Mississippi

Injection Interval: 5800 to 6469 perfs(OH:     ) to \_\_\_\_\_ perfs/OH: \_\_\_\_\_ to \_\_\_\_\_ perfs/OH

MAXIMUM AUTHORIZED: Injection Rate 60000 bbl/day MAXIMUM AUTHORIZED: Injection Pressure 1700 psi

LEASES SUPPLYING WATER

[Operator]	[Lease]	[Lease Description]
<u>Sand Ridge E+P</u>	<u>Bones</u>	<u>NE/4 - Sec 11-28s - 21w</u>

Technical Review:

Table I Dak + 20 Satisfied? \_\_\_\_\_ Table II Top Red Beds Satisfied? Yes

Unconsolidated Thickness: \_\_\_\_\_ Injection Zones isolated by Cement? Y/N \_\_\_\_\_

Cement Behind Packer? Y/N \_\_\_\_\_

Cement Verification: X Cement Tickets \_\_\_\_\_ Job Log \_\_\_\_\_ Driller's Log \_\_\_\_\_ Cement Bond Log \_\_\_\_\_

Completion Report \_\_\_\_\_ Other (Describe) \_\_\_\_\_

AOR: Inj. Zn protected? \_\_\_\_\_ Perform around X well or \_\_\_\_\_ project area 1320 ft radius 1 PA 1 PROD

Date MIT Approved: 7/24/12 Aff. of Publ.: 5/23/12 Aff. of Notice: 6/14/12

Comments: Design Approval - 6/20/12

Approval Recommended: Technical [Signature] Date: 7/27/12

UIC Director [Signature] Date: 7/27/12

Pressure at PFS w/ Hole Full Water

$$\text{BHP @ PFS W/ HFV} = 0.433 \times \text{SpG} \left[ \frac{1.05}{1.05} \right] \times \left[ \text{Depth of PFS} \frac{5800}{5800} \right]$$

$$= \underline{2637} \text{ BHP @ PFS W/ Hole Full Water}$$

Parting Press = Depth to 'PFs x 0. 75 FG psi/ft

PP = 5800 (PFS) x 0. 75 FG

Parting Press = 4350 psi/ft

Max. Surf Inj. Press = PP - BHP W/HFW psi

MSIP = 1713 psi (estimated)

Conservation Division  
District Office No. 1  
210 E. Frontview, Suite A  
Dodge City, KS 67801



Phone: 620-225-8888  
Fax: 620-225-8885  
<http://kcc.ks.gov/>

Shari Feist Albrecht, Chair  
Jay Scott Emler, Commissioner  
Pat Apple, Commissioner

Sam Brownback, Governor

August 11, 2015

Wanda Ledbetter  
SandRidge Exploration and Production LLC  
123 ROBERT S. KERR AVE  
OKLAHOMA CITY, OK 73102-6406

Re: Temporary Abandonment  
API 15-057-20814-00-00  
Tiffany SWD 2821 1-11  
NE/4 Sec.11-28S-21W  
Ford County, Kansas

Dear Wanda Ledbetter:

"Your temporary abandonment (TA) application for the well listed above has been approved. In accordance with K.A.R. 82-3-111 the TA status of this well will expire 08/11/2016.

- \* If you return this well to service or plug it, please notify the District Office.
- \* If you sell this well you are required to file a Transfer of Operator form, T-1.
- \* If the well will remain temporarily abandoned, you must submit a new TA application, CP-111, before 08/11/2016.

You may contact me at the number above if you have questions.

Very truly yours,

mmaier"