## KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1366609

Form ACO-18 Form must be typed Form must be signed May 2009

## APPLICATION FOR VENTING OR FLARING OF GAS OTHER THAN CASINGHEAD GAS (K.A.R. 82-3-314)

Venting / Flaring
ID #\_\_\_\_\_

Operator Information:	Well Information:
OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:	+ Feet from East / West Line of Section
Contact Person:	County:
Phone: ()	Lease Name: Well #:
☐ A. Formation/Interval and estimated BTU Value of	gas to be vented:
Formation: Interval:	Estimated BTU Value:
☐ B. Expected Maximum Gas Vented Volume:	
Formation:	BOPD: MCFPD: BWPD:
C. Distance to the nearest pipeline or gathering fac	cility:
Include the following attachments for all applications:	
1. Wireline log of subject well, if available. If not availa	
2. Completed Well Completion form for the subject we	
3. Method of measuring vented / flared gas.	
4. Written explanation of why venting or flaring is nece	essary.
_	n and affidavit of publication as required in K.A.R. 82-3-135a.
	·
Include the following for coalbed natural gas venting a	applications only:
<ul> <li>6. Plat Map including location of subject well, all other of offsetting operators.</li> </ul>	wells on subject lease and all wells on offsetting leases. Include the names and address
7. Completed Affidavit for Venting of Coalbed Natural 0	Gas, Form CG-4.
	AFFIDAVIT
I am the affiant and I hereby certify that to the best of my c	current information, knowledge and personal belief, this request to vent/flare natural gas is true and
proper and I have no information or knowledge, which is in	nconsistent with the information supplied in this application.
KCC Office Use Only	Submitted Electronically
☐ Denied ☐ Approved Permit Expires:	
15-Day Periods Ends:	Protects may be filed by any party begins a valid interest in the application. Protects
Approved By: Date:	Protests may be filed by any party having a valid interest in the application. Protests must be in writing and comply with K.A.R. 82-3-135b and must be filed within 15 days of

publication of the notice of the application.

CORRECTION #1

Confidentiality Requested:

Yes No

#### KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1234639

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

## WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R 🔲 East 🗌 West
Address 2:	Feet from North / South Line of Section
City:	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:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)  Datum: NAD27 NAD83 WGS84
Wellsite Geologist:	
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:
☐ Oil ☐ WSW ☐ SWD ☐ SIOW	Producing Formation:
Gas D&A ENHR SIGW	Elevation: Ground: Kelly Bushing:
☐ OG ☐ GSW ☐ Temp. Abd.	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 ENHR ☐ Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer	(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:
ENHR 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	Countv: 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				
Geologist Report Received				
UIC Distribution				
ALT I II III Approved by: Date:				

CORRECTION #1

Operator Name:			L	ease Name: _			Well #:	
Sec Twp	S. R	East We	est C	County:				
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres	sures, whether sh	ut-in pressur	e reached stati	c level, hydrosta	tic pressures, bott		
Final Radioactivity Lo files must be submitted					gs must be ema	iled to kcc-well-log	gs@kcc.ks.go	. Digital electronic log
Drill Stem Tests Taker (Attach Additional		Yes	No	L		n (Top), Depth an		Sample
Samples Sent to Geo	logical Survey	Yes	No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes Yes	No No					
List All E. Logs Run:								
		(	CASING REC	ORD Ne	w Used			
		· ·		ıctor, surface, inte	ermediate, producti		T	
Purpose of String	Size Hole Drilled	Size Casin Set (In O.D		Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADD	ITIONAL CEN	MENTING / SQL	JEEZE RECORD			
Purpose:	Depth Top Bottom	Type of Cem	ent #	# Sacks Used Type and Percent Additives				
Perforate Protect Casing	100 20111111							
Plug Back TD Plug Off Zone								
1 lag on zono								
Did you perform a hydrau	ulic fracturing treatment	on this well?			Yes	No (If No, ski)	o questions 2 ar	nd 3)
Does the volume of the to		•				_	o question 3)	(" 100 ")
Was the hydraulic fractur	ing treatment information	on submitted to the c	hemical disclo	sure registry?	Yes	No (If No, fill o	out Page Three	of the ACO-1)
Shots Per Foot		ION RECORD - Bri Footage of Each Int				cture, Shot, Cement		d Depth
	, ,				,		,	
TUBING RECORD:	Size:	Set At:	Pa	acker At:	Liner Run:			
						Yes No		
Date of First, Resumed	Production, SWD or Ef		cing Method: owing	Pumping	Gas Lift C	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls. G	as Mcf	Wate	er Bl	ols. G	ias-Oil Ratio	Gravity
DIODOCITI	ON OF CAS:		, 4 CT - 1		TION:		DRODUCTIO	AN INTEDVAL.
Vented Solo	ON OF GAS:  Used on Lease	Open Ho		IOD OF COMPLE $\Box$		nmingled	PHODUCIIC	ON INTERVAL:
	bmit ACO-18.)	Other (S	necify)	(Submit		mit ACO-4)		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Perth 3302 2-1H
Doc ID	1234639

#### Perforations

Perforation Record	Material Record	Depth
4082-4084	Slickwater & HEFE HCL 15% Acid Frac	4082-8168
4279-4281		
4341-4343		
4734-4736		
4806-4808		
4867-4869		
4916-4918		
4964-4966		
5029-5031		
5101-5103		
5150-5152		
5221-5223		
5298-5300		
5358-5360		
5436-5438		
5508-5510		
5573-5575		
5652-5654		
5730-5732		
5778-5780		
5858-5860		
5933-5935		
6000-6002		
	4082-4084  4279-4281  4341-4343  4734-4736  4806-4808  4867-4869  4916-4918  4964-4966  5029-5031  5101-5103  5150-5152  5221-5223  5298-5300  5358-5360  5436-5438  5508-5510  5573-5575  5652-5654  5730-5732  5778-5780  5858-5860  5933-5935	4082-4084 Slickwater & HEFE HCL 15% Acid Frac 4279-4281 4341-4343 4734-4736 4806-4808 4867-4869 4916-4918 4964-4966 5029-5031 5101-5103 5150-5152 5221-5223 5298-5300 5358-5360 5436-5438 5508-5510 5573-5575 5652-5654 5730-5732 5778-5780 5858-5860 5933-5935

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Perth 3302 2-1H
Doc ID	1234639

#### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	6061-6063		
5	6104-6106		
5	6236-6238		
5	6285-6287		
5	6349-6351		
5	6428-6430		
5	6495-6497		
5	6582-6584		
5	6647-6649		
5	6718-6720		
5	6811-6813		
5	6898-6900		
5	6942-6944		
5	7001-7003		
5	7087-7089		
5	7152-7154		
5	7224-7226		
5	7304-7306		
5	7372-7374		
5	7454-7456		
5	7522-7524		
5	7605-7607		
5	7670-7672		
5	7751-7753		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Perth 3302 2-1H
Doc ID	1234639

#### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	7821-7823		
5	7882-7884		
5	7948-7950		
5	8018-8020		
5	8098-8100		
5	8166-8168		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Perth 3302 2-1H
Doc ID	1234639

#### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Conductor	30	20	75	80	grout	10	see report
Surface	12.25	9.625	36	252	Class A	180	see report
Intermedia te	8.75	7	26	4698	Class A POZ Blend	340	see report

## **Hydraulic Fracturing Fluid Product Component Information Disclosure**

4/26/2014	Job Start Date:
4/28/2014	Job End Date:
Kansas	State:
Sumner	County:
	API Number:
SandRidge Energy	Operator Name:
Perth 3302 #2-1H	Well Name and Number:
-97.47702560	Longitude:
37.20148800	Latitude:
NAD27	Datum:
NO	Federal/Tribal Well:
3,966	True Vertical Depth:
2,462,446	Total Base Water Volume (gal):
0	Total Base Non Water Volume:







#### **Hydraulic Fracturing Fluid Composition:**

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS#)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Well Operator	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	95.63472	Vone
40/70 Premium Preferred Sand	Cimarron Acid	Proppant, Scouring, Fill					
			Crystalline Silica (quartz)	14808-60-7	100.00000	3.12746	Vone
15% Unihibited HCl Acid	Cimarron Acid	Etching, Dissolving, Cleaning					
			Water	7732-18-5	85.00000	0.63878	Vone
			Hydrochloric Acid	7647-01-0	15.00000	0.11273	Vone
			Water	7732-18-5	24.00000	0.00015	Vone
			Methanol	67-56-1	9.00000	0.00006	Vone
			Triethyl Phosphate	78-40-0	8.40000	0.00005	Vone
			Ethoxylated Nonylphenol	68412-54-4	8.40000	0.00005	Vone
			Isopropyl Alchohol	67-63-0	8.40000	0.00005	Vone
			2-Butoxyethanol	111-76-2	8.40000	0.00005	Vone
			Tar Bases-quinoline derivs- benzyl chloride/quaternized	72480-70-7	8.40000		
			Cinnamaldehyde	104-55-2	8.40000	0.00005	Vone
			N-Dimethyformamide	68-12-2	8.40000	0.00005	Vone
			Ethylene Glycol	107-21-1	8.40000	0.00005	Vone

40/70 Resin Coated Sand	Cimarron Acid	Proppant, Scouring, Fill					
			Crystalline Silica (quartz)	14808-60-7	97.00000	0.34751	None
Iron Control, Sodium Erythorbate	Cimarron Acid	Iron Control					
			Water	7732-18-5	55.50000	0.02530	None
			Methanol	67-56-1	12.70000	0.00581	None
			Dinanylphenyl Polyoxyethylene	201602-88-2	9.10000	0.00415	None
			Poly(ethlene Oxide)	25322-68-3	9.10000	0.00415	None
			Nonylphenal Polyethylene Glycol Ether	127087-87-0	9.10000	0.00415	None
			Isopropanol	67-63-0	4.60000	0.00208	None
			Sodium Erythorbate	6381-77-7	100.00000	0.00025	None
			Water	7732-18-5	54.50000	0.00018	None
			Polyglycol Ethers	52624-57-4	13.60000	0.00005	None
			Isopropanol	67-63-0	13.60000	0.00005	None
			Methanol	67-56-1	9.00000	0.00003	None
			Glycol Ether EB	111-76-2	9.00000	0.00003	None
FR-986, Cationic Friction Reducer	Cimarron Acid	Friction Reducer					
			Water	7732-18-5	50.00000	0.00492	None
			Petroleum Hydrotreated Light Distillate	64742-47-8	2.50000	0.00178	
			Phosphoric Acid	7664-38-2	16.80000	0.00165	None
			Hydrochloric Acid	7647-01-0	16.80000	0.00165	None
			Ethylene Glycol	107-21-1	12.70000	0.00125	None
			Methanol	67-56-1	3.60000	0.00036	None

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

<sup>\*</sup> Total Water Volume sources may include fresh water, produced water, and/or recycled water
\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

#### **Summary of Changes**

Lease Name and Number: Perth 3302 2-1H

API/Permit #: 15-191-22718-01-00

Doc ID: 1234639

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	06/04/2014	12/10/2014
Date of First or Resumed Production or		07/27/2014
SWD or Enhr Disposition Of Gas - Vented	No	Yes
Fracturing Question 2	No	Yes
Fracturing Question 3		Yes
Method Of Completion - Perf	No	Yes
Producing Method Other	No	Yes
Producing Method Other Detail		ESP
Producing Method Pumping	No	Yes
Production - Barrels Oil		41

#### Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Production - Barrels of Water		4232
Production - MCF Gas		260
Production Interval #1		4082-8168
Purchaser's Name		Oil = CVR Gas = Flare
Save Link	//kcc/detail/operatorE ditDetail.cfm?docID=12	//kcc/detail/operatorE ditDetail.cfm?docID=12
Total Depth	07910 8262	34639 4620
Well Type	SIGW	OIL

#### **Summary of Attachments**

Lease Name and Number: Perth 3302 2-1H

API: 15-191-22718-01-00

Doc ID: 1234639

Correction Number: 1

**Attachment Name** 



Confidentiality Requested:

Yes No

#### Kansas Corporation Commission Oil & Gas Conservation Division

1207910

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

## CONFIDENTIAL WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

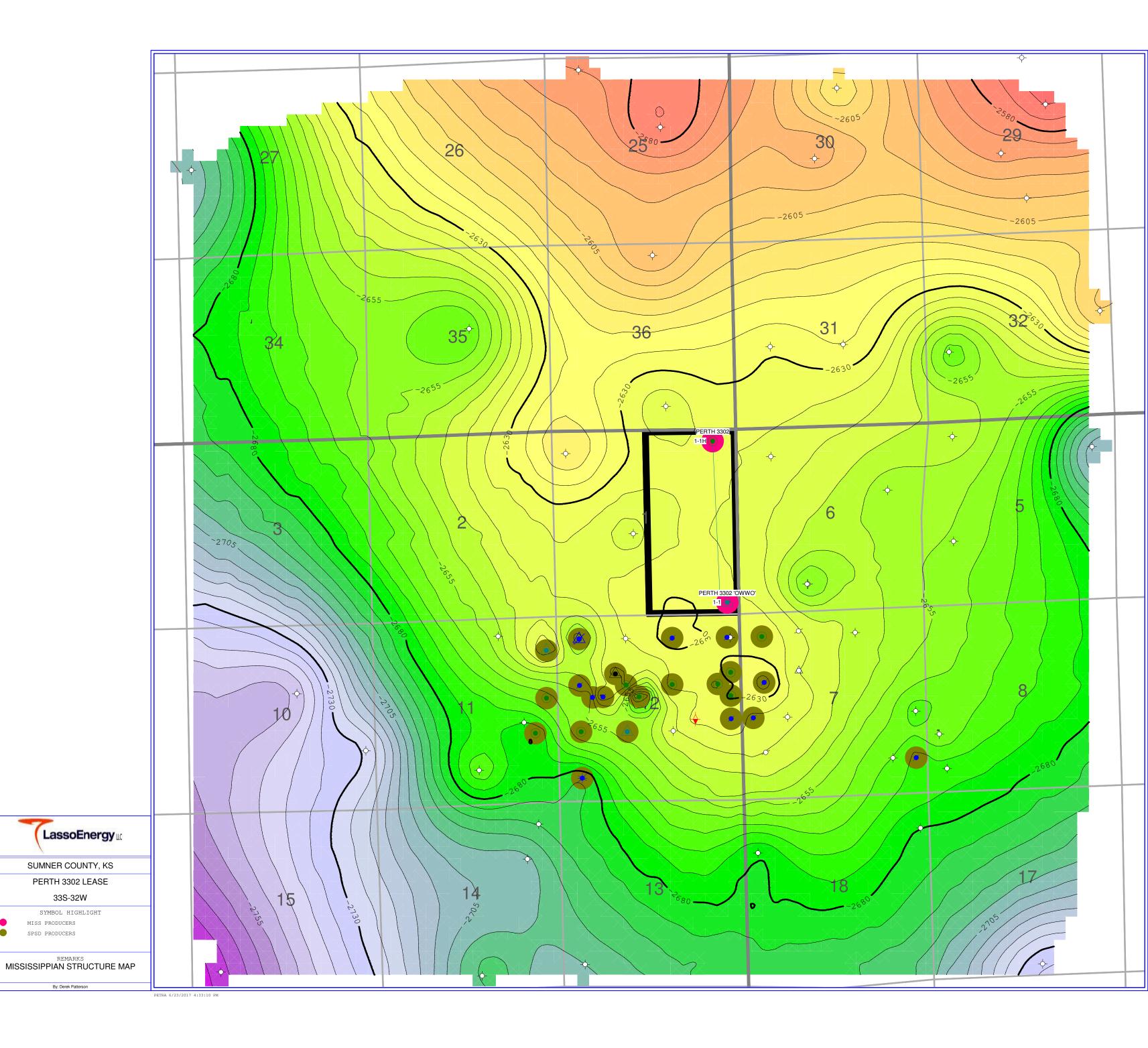
OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City:	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:
☐ Oil ☐ WSW ☐ SWD ☐ SIOW	Producing Formation:
Gas D&A ENHR SIGW	Elevation: Ground: Kelly Bushing:
☐ OG ☐ GSW ☐ Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer	(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:
ENHR 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					
Geologist Report Received					
UIC Distribution					
ALT I III Approved by: Date:					



**TOPOGRAPHIC LAND SURVEYORS** 6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219 Certificate of Authorization No. LS-99, Exp. Dec. 31, 2013 SUMNER County, Kansas Township 33S \_\_2W\_\_P.M. 330'FSL - 530'FEL \_ Range Section Township Line / R2W 1335 IRON ROD X 2298393 Y 201340 CALCULATED X 2293201 Y 201240 330' HARDLINE (1980') LOT 1 LOT 3 LOT 4 BOTTOM HOLE 330'FNL-660'FEL NAD-27 (US Feet) 37'12'51.1"N 97'28'39,4"W 37.214195829'N 97.477600518'W X 2297738 Y 200998 [2310'] S/2-NE/4 S/2-NW/4 330, **GRID** NAD-27 Kansas South US Feet Note: 3.280833 Ft.=1 Meter (2310') Scale: 1"= 1000' 500' 1000 ISTING PUMPJACK (2110')+ IRON ROD IRON ROD 330' HARDLINE X 2298493 Y 196059 2293292 60th STREET GLO STONE X 2295844 Y 195978 Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet, those shown in [brackets] are based on GLO (General Land Office) distances and have NOT been measured on the ground. A boundary survey of the said section(s) Bottom Hole information provided by operator listed, NOT shown hereon was <u>not</u> performed per the request of the operator shown hereon. Surveyed; and Corner Coordinates are taken from points surveyed in the field. Operator: SANDRIDGE EXPLORATION & PRODUCTION, LLC **ELEVATION:** Lease Name: PERTH 3302 Well No.: 1-1H 1234' Gr. at Stake Topography & Vegetation Location fell in sloped wheat field, ±204' West of existing pumpjack. Reference Stakes or Alternate Location None Good Drill Site? \_ Stakes Set \_ From South of county road. Best Accessibility to Location Distance & Direction From Wellington, KS., go ±4.5 miles South on U.S. Hwy. 81, then ±4 miles West to the from Hwy Jct or Town SE corner of Section 1, T33S - R2W. Dec. 16, 2013 MAYNE Date of Drawing: \_ Invoice # 213099 Date Staked: \_ Dec. 13, 2013 **RKM** 

DATUM: NAD-27

LAT: 37.12'05.4"N

LONG: 97.28'37.3"W

LAT: 37.201488036'N

LAT: 37.201488036'N

LONG: 97.477025603'W

STATE PLANE

COORDINATES: (US Feet)

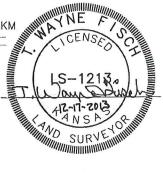
TONE: KS SOUTH

THE TONE: KS SOUTH

TONE: Y: 196373

#### **CERTIFICATE:**

I, T. Wayne Fisch a Kansas Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors, do hereby certify that the above described well location was surveyed and staked on the ground as shown herein.



Target Line  TVD @ 0' VS 3,973  INC 90.00		
	TVD @ 0' VS	3,973
	INC	90.00

	SHL	BHL
X NAD 27	2,297,956	2,297,738
Y NAD 27	196,373	200,998

0.00	TVD displacement f/ EOC to TD
3,973.00	TVD @ TD
8,213.92	TD (MD)
3,816.25	Traverse Length
357.30	Azimuth
3,083.38	KOP
3,973.00	EOC (TVD)
4,397.67	EOC (MD)
4,630.13	Total VS

SandRidge Energy

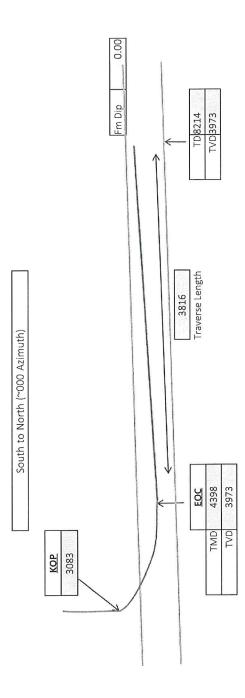
Well Name and Number

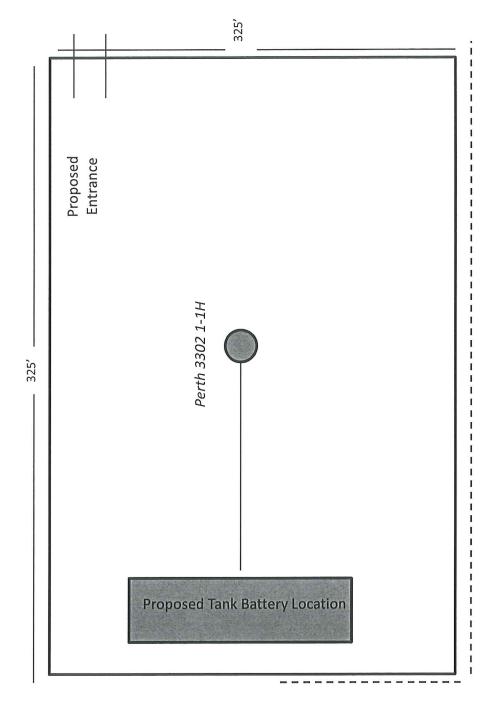
# Perth 3302 1-1H

1-33S-2W; 330' FSL & 530' FEL Well Surface Location

Well Bottom Hole Location 1-33S-2W; 330' FNL & 660' FEL

County and State Sumner County, Kansas





Proposed Electric Line

#### Perth 3302 1-1H

#### **Lease Information Sheet**

#### **Unit Description:**

S2 S2 SE/4 Section 01-33S-02W Sumner County

#### **Surface Owner:**

Surface owners (undivided interest):

33.33%

Albert A. Heckes, Trustee -

'of the Albert A. Heckes and Marian L. Heckes Revocable Trust – Trust H,

dated September 29, 1979

3616 Mary Ellen N.E.

Albuquerque, NM 67226

33.33%

Shirley A. Gasper and Donald D. Gasper, Co-Trustees

of the Shirley A. Gasper Revocable Trust dated May 10, 2001

710 North Kansas

Anthony, KS 67003

316-842-5701

16.67%

Westana Leah Heckes

627 Jayhawk

Cheney, KS 67025

## Perth 3302 1-1H

## Lease Information Sheet, continued

#### Surface Owner, continued:

16.67%

Travis Dean Heckes

3101 North Rock Road, Suite 125

Wichita, KS 6726 - OR -

1437 W. Mulberry St.

Olathe, KS 66061

TOPOGRAPHIC LAND SURVEYORS
6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219

Certificate of Authorization No. LS-99, Exp. Dec. 31, 2013 SUMNER \_ County, Kansas 2W\_P.M. 330'FSL - 530'FEL \_\_Township \_\_33S Range \_\_ Section 50th STREET Township Line-P RZW IRON ROD X 2298393 Y 201340 660 CALCULATED X 2293201 Y 201240 330' HARDLINE (1980') LOT 2 LOT BOTTOM HOLE 330'FNL-660'FEL NAD-27 (US Feet) 37'12'51.1"N 97'28'39.4"W 37.214195829'N 97.477600518'W X 2297738 Y 200998 LOT 3 LOT 4 [23107 S/2-NE/4 2-NW/4 330, 330 HARDLINE GRID NAD-27 Kansas South US Feet Note: 3.280833 Ft.=1 Meter (2310')| Scale: 1"= 1000' 1000 STING PUMPJACK (2110') IRON ROD IRON ROD 330' HARDLINE X 2298493 Y 196059 2293292 195992 3.30' GLO STONE X 2295844 Y 195978 Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet, those shown in [brackets] are based on GLO (General Land Office) distances and have <u>NOT</u> been measured on the ground. A boundary survey of the said section(s) shown hereon was <u>not</u> performed per the request of the operator shown hereon. Bottom Hole information provided by operator listed, NOT Surveyed; and Corner Coordinates are taken from points surveyed in the field. Operator: SANDRIDGE EXPLORATION & PRODUCTION, LLC **ELEVATION:** Well No.: 2-1H Lease Name: PERTH 3302 1234' Gr. at Stake Location fell in sloped wheat field, ±204' West of existing pumpjack Topography & Vegetation \_ Reference Stakes or Alternate Location None Good Drill Site? \_ Stakes Set \_ From South of county road. Best Accessibility to Location Distance & Direction From Wellington, KS., go ±4.5 miles South on U.S. Hwy. 81, then ±4 miles West to the from Hwy Jct or Town\_ SE corner of Section 1, T33S - R2W Revision X A Jan. 8, 2014 Date of Drawing: -DATUM: NAD-27 LAT: 37'12'05.4"N LONG: 97'28'37.3"W **RKM** Invoice # 213099 Date Staked: -Dec. 13, 2013 **CERTIFICATE:** LAT: 37.201488036'N T. Wayne Fisch \_a Kansas Licensed Land LONG: 97.477025603°W Surveyor and an authorized agent of Topographic Land Surveyors, do hereby certify that the above described STATE PLANE SURVEYING well location was surveyed and staked on the ground COORDINATES: (US Feet) ZONE: KS SOUTH as shown herein.

2297956

196373

X:

#### Perth 3302 2-1H

### **Sumner County**

#### **Unit Description:**

S2 S2 SE/4 of 1-33S-2W

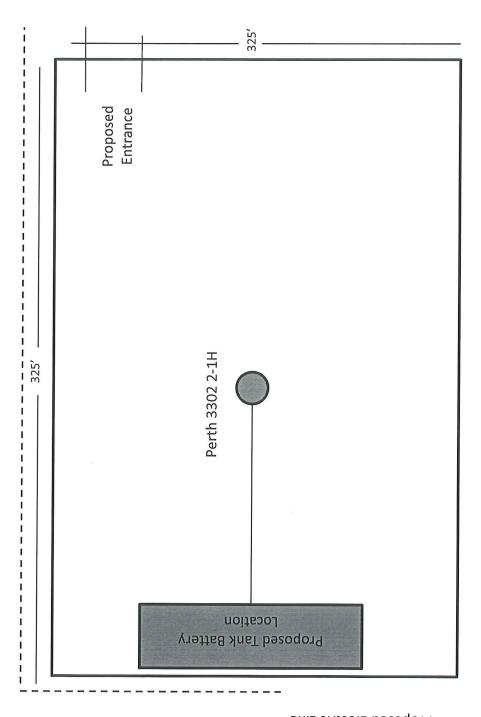
#### **Surface Owners:**

Albert A. Heckes, Trustee of the Albert A. Heckes and Marian L. Heckes Revocable Trust – Trust H, under agreement dated September 29, 1979 3616 Mary Ellen N.E. Albuquerque, NM 67226

Shirley A. Gasper and Donald D. Gasper, Co-Trustees of the Shirley A. Gasper Revocable Trust dated May 10, 2001 710 North Kansas Anthony, KS 67003

Westana Leah Heckes 627 Jayhawk Cheney, KS 67025

Travis Dean Heckes 3101 North Rock Road, Suite 125 Wichita, KS 6726 – OR – 1437 W. Mulberry St. Olathe, KS 66061



WELL No: **REV** 2-1H 01 - T33S - R02W SUMNER COUNTY, KANSAS AS RUN IN 07/11/2017 SURFACE TEMP: 85 DEG F G.L. ELEVATION 1234' (SHL) TUBING HEAD SET TOP CLPG 12" AGL KB: 19' -- KB ELEVATION: 1253' 30 20" 75 LB/FT CONDUCTOR CASING SET AT 80' (DRILL 30" DIA. BIT) 80' 10 SX OF COMMON CEMENT - CIRCULATED CMT TO SUR. NO 3 1/2" TUBING SUBS PUMPING UNIT: C - 228 - 240 - 74 (74" SURFACE STROKE) CONVENTIONAL UNIT - NATIONAL 40 HP ELECTRIC MOTOR - 3 PHASE, 480 VAC 40 HP SPOC VFD 9 5/8" SURFACE CASING - 36 LB/FT RUN TIME: 24 HRS PER DAY 1.25" X 22' POLISHED ROD WITH LINER ASSEMBLY (22' TOTAL) SET AT 252' (DRILL 12 1/4" DIA. BIT) 1.50" HARD FACED POLISHED ROD LINER X 10" 36 LB/FT CASING WITH 180 SACKS 6' PONY ROD ON TOP (7/8" GRADE N97) (6' TOTAL) (122) 7/8" GRADE N97 SUCKER RODS (TOP TAPER) (3050' TOTAL) J55 STC 252' TOP OUT JOB 252 (6) 1.50" SINKER BARS ON BOTTOM (150' TOTAL)
ONE 2' X 7/8" PONY ROD ON BOTTOM (TOP OF PUMP) (2' TOTAL) W/ ROD GUIDE BOP ATTACHES TO 9 5/8" SURFACE CASING SPEED RANGE: 4 TO 14 SPM (CURRENT SPEED 10.1 SPM) 7.0" INTERMEDIATE CASING SET AT 4698 MD' (DRILL 8 3/4" DIA. BIT) 26 LB/FT - P-110 **TUBULARS** CEMENTED IN WITH 340 SACKS INTERMEDIATE 7" CONDUCTOR 20" PROD. TUBINO 3 1/2" WEIGHT 75.0 LB/FT 36.0 LB/FT 26.00 LB/F 11.60 LB/FT 9.30 LB/FT J-55 3,520 PSI BURS' 7,950 PSIG 9,955 PSIG 10,480 PS 3 1/2 PRODUCTION TUBING COLLAS 2.020 PSI 6.232 PSIG 11,080 PSIG 8.330 PSIG 127,250 LBF 9.3 LB/FT API J55 UPSET YIELD N/A 0.038 BBLS/FT 0.365 GAL/FT 117 JOINTS = 3861' THICKNES 0.3620 0.3370 0.2540 8.92100 6.2760 3.8260 33.00' / JOINT? 2.9920 N/A N/A DRIFT ID N/A 6.1510 2.8670 AREA N/A 30.9355 IN 7.0310 IN2 SETTING DEI 4698 8262 3600 98 JOINTS ABOVE TUBING ANCHOR LENGTH 4698 3600 DATE 01/12/2017 APPROVED BY B. KELSO 1906' EST. TOP OF CEMENT (TOC) API No 15191227180100 GL ELEVATION 1234' SH 19' KB KB ELEVATION 1/2" X 7" X 3' TUBING ANCHOR SET IN TENSION AT 3234 - 98 JOINTS ABOVE THE ANCHOR (ANCHOR DID NOT SET) 3 1/2" TUBING ABOVE PUMP -- 99' OF TUBING (3 JOINTS) BELOW TUBING ANCHOR 3200' KICK OFF POINT (KOP) 2 3/4" TUBING PUMP BBL X 12' W/ 2' AND 3' EXT BBLS (2 3/4" VALVES) SEE WELL FILES 10 JOINTS OF 3 1/2" OF TUBING (330') FOR CEMENT DETAILS TANGENT (4400'-4500') 100 3 1/2" X 15 00' MUD ANCHOR BUILD RATE DEGREES PER 10 MEDIUM BEND PERFORATED (3683' AT BOTTOM) 4 1/2" X 7' LINER HANGER AT 4617' MD TD AT 8,262' MD MISSISSIPPIAN (WITH LARGE FRAC) 11.6 LB/FT N80 PBTD: 8,199' MD 4082' - 8183' MD (11 STAGES) ' DRILLING WINDOW TOF UP TVD: 3976' MISSISSIPPIAN PERFS. MISSISSIPPIAN - \_\_\_\_' DRILLING WINDOW 4082' - 4343' MD DRILLED TO THE NORTH 7.0" INTERMEDIATE CASING 4 1/2" PRODUCTION LINER (SOLID) 4 1/2" X 7" LINER TOP AT4617.2' MD 11.6 LB/FT N80 LTC N80 AT 89 DEGREES SET AT 8262' (DRILL 6 1/8" DIA. BIT) NO CEMENT - OH PACKERS PERTH 3302 #2-1H 2 7/8 PRODUCTION TUBING 6.4 LB/FT API J55 UPSET 4400' TO 4600' TOP ESP SET AT 89 DEGREES

DOWN HOLE SUCKER ROD PUMP:

2.7500" TUBING PUMP (2.75 X 12) 3 X 2 3/4" X 12 X 14 X 17 PUMP LENGTH: 12' (NICARD AND SS) 2' X 7/8" (D) PONY ROD ON TOP OF PUMP WITH ROD GUIDE PUMP INTAKE DEPTH: 3353' MD

SUMNER COUNTY, KANSAS

01-T33S-R02W - PERTH FIELD E2 - 320 GROSS ACRES SHL: 321 FSL, 531 FEL (IN SEC 01)

BHL: 340 FNL, 673 FEL (IN SEC 01) API NO.: 15-191-22718-0100

SEE WELL FILE

CASING PRESSURE: 622 PSIG STATIC F.L.: 4416' 03/31/2017



## BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

## NOTICE OF FILING APPLICATION

**RE:** MIKE KELSO OIL INC – Application for a permit (ACO18) to authorize the flaring of natural gas from the PERTH 3302 #2-1H WELL, located in SUMNER COUNTY, KANSAS.

**TO:** All Oil and Gas Producers, Operators, Unleased Mineral Interest Owners, Landowners, and all persons whoever concerned.

You, and each of you, are hereby notified that Mike Kelso Oil Inc has filed an Application to Flare natural gas at the <u>PERTH 3302 #2-1H WELL</u>, located in the SE/4 of Section 01, Township 33 South, Range 02 West, Sumner County, Kansas, with a maximum flow rate of 350 MCFD for the entire duration of production from the subject well.

Any persons who object to or protest this application shall be required to file their objections or protest with the Conservation Division of the State Corporation Commission of the State of Kansas within thirty (30) days from the date of this publication. These protests shall be filed pursuant to Commission regulations and must state specific reasons why granting the application may cause harm, violate correlative rights and or pollute the natural resources of the State of Kansas.

All persons interested or concerned shall take notice of the foregoing and shall govern themselves accordingly.

Bruce D. Kelso Mike Kelso Oil Inc P.O. Box 467 – 1125 South Main Chase, Kansas 67524-0467 620-938-2943 Phone 620-938-2945 Fax (FIRST PUBLISHED in The Wellington Daily News, Wednesday, August 2, 2017) x1

# BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS NOTICE OF FILING APPLICATION

RE: MIKE KELSO OIL INC – Application for a permit (ACO18) to authorize the flaring of natural gas from the PERTH 3302 #2-1H WELL, located in SUMNER COUNTY, KANSAS.

TO: All Oil and Gas Producers, Operators, Unleased Mineral Interest Owners, Landowners, and all persons whoever concerned.

You, and each of you, are hereby notified that Mike Kelso Oil Inc has filed an Application to Flare natural gas at the PERTH 3302 #2-1H WELL located in the SE/4 of Section

01, Township 33 South, Range 02 West, Sumner County, Kansas, with a maximum flow rate of 350 MCFD for the entire duration of production from the subject well.

Any persons who object to or protest this application shall be required to file their objections or protest with the Conservation Division of the State Corporation Commission of the State of Kansas within thirty (30) days from the date of this publication. These protests shall be filed pursuant to Commission regulations and must state specific reasons why granting the application may cause harm, violate correlative rights and or pollute the natural resources of the State of Kansas.

All persons interested or concerned shall take notice of the foregoing and shall govern themselves accordingly.

Bruce D. Kelso Mike Kelso Oil Inc P.O. Box 467 – 1125 South Main Chase, Kansas 67524-0467 620-938-2943 Phone 620-938-2945 Fax Affidavit of Publication State of Kansas, Sumner County, ss.

Will Ravenstein, of lawful age, being duly sworn, says that he is the Managing Editor of GATEHOUSE MEDIA, Inc. dba The Wellington Daily News, a weekly newspaper, printed in the State of Kansas, and published in Sumner County, Kansas, with a general paid circulation on a monthly basis in Sumner County, Kansas, and that said newspaper is not a trade, religious or fraternal publication.

Said newspaper is a daily published at least weekly 50 times a year; has been so published continuously and uninterruptedly in said county and state for a period of five years prior to the first publication of said notice; and has been admitted at the post office of Wellington, Kansas in said County as second class matter.

That the attached notice is a true copy thereof and was published in the regular and entire issue of said newspaper for \_\_\_\_\_ week(s), the first publication there of being made as aforesaid on the \_\_\_\_\_ day of \_\_\_\_\_ and \_\_\_\_ days subsequent publications being made on the following dates:

Will Ravenstein, Editor

Subscribed and sworn to before me, this 2
day of 200

Jackie D. Fullerton Notary, State of Kansas

My commission expires: 104 2, 2020

Publication cost: 108 15

NOTARY PUBLIC - State of Kansas
JACKIE D. FULLERTON
My Appt Expires 11 - 2 - 2020

ACCOUNT# 151076



kelso oil

#### **LEGAL PROOF OF PUBLICATION**

Account #	Ad Number	Identification	PO	Amount	Cals	Lines
614029	0003220851	BEFORE THE STATE CORPORATION COMMIS		\$287.16	1	48

#### Attention:

KELSO OIL INC 1119 SOUTH MAIN PO BOX 467 CHASE, KS 67524

> BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS NOTICE OF FILING APPLICATION

RE: MIKE KELSO OIL INC - Application for a permit (ACD18) to authorize the faring of natural gas from the PERTH 3302 #2-1H WELL, located in SUMNER COUNTY, KANSAS.

TO: All Oil and Gas Producers, Operators, Unleased Mineral Interest Owners, Landowners, and all persons whoever concerned.

You, and each of you, are hereby notified that Mike Kelso Oil Inc has filed an Application to Fiare natural gas at the PERTH 3302 #2-1H WELL, located in the SE/4 of Section 01, Township 33 South, Range 02 West, Sumner County, Kansas, with a maximum flow rate of 350 MCFD for the entire duration of production from the subject well.

Any persons who object to or protest this application shall be required to tile their objections or protest with the Conservation Division of the State Corporation Commission of the State of Kansas within thirty (30) days from the date of this publication. These protests shall be filed pursuant to Commission regulations and must state specific reasons why granting the application may cause harm, vlolate correlative rights and or pollute the natural resources of the State of Kansas.

All persons interested or concerned shall take notice of the foregoing and shall govern themselves accordingly.

Bruce D. Kelso Mike Kelso Oil Inc P.O. Box 467 – 1125 South Main Chase, Kansas 67524-0467 620-938-2943 Phone 620-938-2945 Fax In The STATE OF KANSAS
In and for the County of Sedgwick
AFFIDAVIT OF PUBLICATION

1 Insertions

Beginning issue of:

08/11/2017

Ending issue of:

08/11/2017

STATE OF KANSAS)

.SS

County of Sedgwick)

Dale Seiwert, of lawful age, being first duly sworn, deposeth and saith: That he is Record Clerk of The Wichita Eagle, a daily newspaper published in the City of Wichita, County of Sedgwick, State of Kansas, and having a general paid circulation on a daily in said County, which continuously newspaper has been uninterruptedly published in said County for vear more than one prior to the first publication notice hereinafter of the mentioned, and which said newspaper has been entered as second class mail matter at the United States Post Office in Wichita, Kansas, and which said newspaper is not a trade, religious or fraternal publication and that a notice of a true copy is hereto attached was published in the regular and entire Morning issue of said The Wichita Eagle from 8/11/2017 to 08/11/2017.

I certify (or declare) under the penalty of perjury that the foregoing is true and correct.

smilk

(Signature of Principal Clerk)

DATED: 8/11/2017

ick County, Kansas

JENNIFER RAE BAILEY

Notary Public - State of Kansas

My Appt. Expires 6 (4/76)

#### MIKE KELSO OIL INC

P.O. Box 467 · 1119 South Main · Chase, Kansas 67524-0467 Telephone: 1-620-938-2943 KCC# 34320

Bruce D. Kelso

Email: bkelso@lassoenergy.com

#### SENT VIA KOLAR

September 11, 2017

Kansas Corporation Commission Attn: Jeff Klock 3450 N. Rock Road Building 600, Suite 601 Wichita, KS 67226

RE: Perth 3302 #2-1H Lease

API NO.: 15-191-22718-0100

01-T33S-R02W (ENTIRE SECTION)

Sumner County, Kansas

Perth Field

Dear Mr. Klock,

Mike Kelso Oil Inc is requesting approval of a flare permit for the subject well. This well will be produced in accordance to the rules and regulations set forth by the Kansas Corporation Commission.

All gas produced from the subject well will be metered through a gas meter on the lease and monitored daily. The gas will be analyzed for composition. The daily production rates will be kept in file at Mike Kelso Oil Inc.

If you have any questions please give Mike Kelso a call at 620-562-8088. Thank you.

Sincerely,

Bruce D. Kelso

cc: Kelso Perth 3302 #2-1H Land File