

Confidentiality Requested:									
	Yes	N	lo						

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

1172623

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				
Address 2:			Feet from North / South Line of Section				
City:	State: Z	ip:+	Fe	eet from East /	West Line of Section		
Contact Person:			Footages Calculated from	Nearest Outside Section C	Corner:		
Phone: ()			□ NE □ NW	V □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:	W	ell #:		
	e-Entry	Workover	Field Name:				
	_		Producing Formation:				
☐ Oil ☐ WSW ☐ SWD ☐ SIOW			Elevation: Ground: Kelly Bushing:				
∐ Gas	☐ ENHR	☐ SIGW ☐ Temp. Abd.	Total Vertical Depth:	Plug Back Total D	epth:		
CM (Coal Bed Methane)	dow	Temp. Abd.	Amount of Surface Pipe Se	et and Cemented at:	Feet		
☐ Cathodic ☐ Other (Co	ore. Expl., etc.):		Multiple Stage Cementing	Collar Used? Yes	No		
If Workover/Re-entry: Old Well I			If yes, show depth set:				
Operator:			If Alternate II completion, c	cement circulated from:			
Well Name:			feet depth to:	w/	sx cmt.		
Original Comp. Date:							
Deepening Re-perf	J	ENHR Conv. to SWD	Drilling Fluid Managemer	nt Plan			
Plug Back	Conv. to G		(Data must be collected from to				
Commingled	Permit #		Chloride content:	ppm Fluid volume	: bbls		
Dual Completion			Dewatering method used:_				
SWD			Location of fluid disposal if	hauled offsite:			
ENHR	Permit #:						
GSW	Permit #:		Operator Name:				
			Lease Name:				
Spud Date or Date R	eached TD	Completion Date or	Quarter Sec	TwpS. 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 II III Approved by: Date:							

Page Two



Operator Name:				Lease N	Name: _			Well #:		
Sec Twp	S. R	East	West	County	:					
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres o surface test, along	sures, whethe with final cha	er shut-in pre art(s). Attach	essure reac n extra shee	hed stati t if more	c level, hydrosta space is neede	itic pressures, bot d.	tom hole temp	erature, fluid re	ecovery,
Final Radioactivity Lo files must be submitted						ogs must be ema	ailed to kcc-well-lo	gs@kcc.ks.go	v. Digital electr	onic log
Drill Stem Tests Taken Yes No (Attach Additional Sheets)							on (Top), Depth ar		Sampl	
Samples Sent to Geo	logical Survey	Yes	□No		Nam	е		Тор	Datum	1
			☐ No ☐ No							
List All E. Logs Run:										
				RECORD	Ne					
	2	1				ermediate, product		T	T	
Purpose of String	Size Hole Drilled		Casing n O.D.)	Weig Lbs. /		Setting Depth	Type of Cement	# Sacks Used	Type and Pe Additive	
			ADDITIONAL	CEMENTIN	NG / SQL	JEEZE RECORD				
Purpose:	Depth Top Bottom	Type of	Cement	# Sacks	Used	Type and Percent Additives				
Perforate Protect Casing	100 20111111									
Plug Back TD Plug Off Zone										
1 lug 0 li 20 lio										
Did you perform a hydrau	ulic fracturing treatment	on this well?				Yes	No (If No, ski	ip questions 2 ar	nd 3)	
Does the volume of the t							= :	p question 3)		
Was the hydraulic fractur	ring treatment information	on submitted to	the chemical	disclosure re	gistry?	Yes	No (If No, fill	out Page Three	of the ACO-1)	
Shots Per Foot			RECORD - Bridge Plugs Set/Type tage of Each Interval Perforated			Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)  Depth				epth
	open,					,,				
TUBING RECORD:	Size:	Set At:		Packer A	t:	Liner Run:				
							Yes No			
Date of First, Resumed	Production, SWD or Ef	NHR.   F	Producing Met	hod: Pumpin	a	Gas Lift 0	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wat			Gas-Oil Ratio	Gra	avity
	1									
	ON OF GAS:		en Hole	METHOD OF			mmingled	PRODUCTION	ON INTERVAL:	ļ
Vented Solo	I Used on Lease bmit ACO-18.)		en noie _	Perf.	(Submit		mmingled mit ACO-4)			



## Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

NOTARY PUBLIC - State of Kansas

#### DRILLER'S LOG

Operator: Hupfer Ope	erating, Inc.	Lic# 30380	Contractor.	Discovery	Drilling Co., Inc.	LIC#31548
P.O. Box 3				PO Box 76	63	
W-11	KS 66203-0912			Hays, KS	67601	
Lease; Morgenster	rn # 5		Location:	990 FNL -	990 FWL	
Ecuse, morgoniste				SE/NW/N	w	
39				Section 9/	16S/ 13W	
				Barton Co	ounty, KS	
Lancas Tatal Donth	No Los		API#15-	009-25,87	<b>'5-00-00</b>	
Loggers Total Depth:				1932 GL -		
Rotary Total Depth:			Completed:			
Commenced:			•	Oilwell	<del></del>	
Casing.	8 5/8" @ 482'W/215sks 5 1/2" @ 3391'W/125sks		4 (0.00.0)			
	5 1/2 (0) 3391 141/123913					
	DEPT	'HS & FORM	ATIONS			
		(All from KB				
Surface, Sand & Shale	e <u>0'</u>	_	Shale		917'	
Dakota Sand	257'	_	Shale & Lim	е	1591'	
Shale	284'	_	Shale		1972'	
Cedar Hill Sand	413'	_	Shale & Lim	В	2401'	
Red Bed Shale	581'	<del></del>	Lime & Shal	е	2778'	
Anhydrite	887'	_	RTD		3395'	
Base Anhydrite	917'					
STATE OF KANSAS)	) ) )ss					
COUNTY OF ELLIS	j		)	torn	1	
Thomas H. Alr the above and forego	n of Discovery Drilling state ing is a true and correct log	that to the begin of the above of Thomas H.	mod L	vledge		
Subscribed and swor	n to before me on	18-15-1	3			
My Commission expi	res: <u>8-9-15</u>	- la	/	1 11		
(Place stamp or seal	below)	Notary Publ	WWW.S.	uen		

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

one 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 7525

Finish ell 785-324-1041 On Location State County 5:15 AM Range Sec. Twp. 15 13 Barton 16 Date 10-21. Location 5 Owner Well No. Morgenstern To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. Type Job Opprating Hole Size 12 14 Street Depth 479 State City The above was done to satisfaction and supervision of owner agent or contractor. Depth Tbg. Size Depth 3+1 Tool Cement Amount Ordered 215 Shoe Joint 1000 60 Cement Left in Csg. Displace Meas Line Common ! EQUIPMENT Cementer Poz. Mix No. Pumptrk 15 Helper Gel. Driver No. **Bulktrk** Driver Calcium Driver Bulktrk F M Driver Hulls JOB SERVICES & REMARKS Salt Remarks: Flowseal Rat Hole Kol-Seal Mouse Hole Mud CLR 48 Centralizers CFL-117 or CD110 CAF 38 Baskets Sand D/V or Port Collar Handling \_ Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets **AFU** Inserts Float Shoe Latch Down Pumptrk Charge Mileage 2 Tax Discount Total Charge X Signature

### MORGENSTERN #5 - DST'S AND COMPLETE API # 15-009-25, 875-00-00

DST # 1 LAMSING 3270 TO 3340' 30.30.45.60
RECOVERED 60' OIL CUT MUD ISEP 716 FSEP 707
IFP 132-94 FFP 127-104

DST # 2 ARBUCKIE 3362 - 3395 15-20-20-30
RECOVERED 120' BIP, 60' Mud Cut Out and
720 6 ASSY OIL ISEP 1062 FSIP 1047
IFP 175-245 FFP 282-344

CompleTION: DRIVED OUT PACKER SHOE C 3391 - DROP INTO 4° OF OPEN NOVE-SWABBED THRU BIT - SWAB 15 BOPH NO WATER - RUN TUBING 4 ROD'S