

Confidentiality Requested:

Yes No

### Kansas Corporation Commission Oil & Gas Conservation Division

1198701

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 ☐ D&A	☐ SWD	∐ SIOW ∏ SIGW	Elevation: Ground:	Kelly Bushing:				
	GSW	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 Approved by: Date:								

Page Two



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		rval tested, time tool erature, fluid recovery,		
Final Radioactivity Lo files must be submitted					ogs must be ema	iled to kcc-well-lo	gs@kcc.ks.go	v. Digital electronic log		
Drill Stem Tests Taker (Attach Additional		Yes [	No	L	_	on (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	ew Used					
		· ·		ıctor, surface, inte	ermediate, producti	1		I		
Purpose of String	Size Hole Drilled	Size Casing 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						
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		•				_ ` ` '	p question 3)			
Was the hydraulic fractur	ing treatment information	on submitted to the c	hemical disclo	sure registry?	Yes	No (If No, fill	out Page Three	of the ACO-1)		
Shots Per Foot		ION RECORD - Bri Footage of Each Into			Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)  Depth					
	, ,	<u> </u>								
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	other (Explain)				
Estimated Production Per 24 Hours	Oil	Bbls. G	as Mcf	Wate	er Bi	ols. G	as-Oil Ratio	Gravity		
DIODOCITI	ON OF CAS:		N 4 - T - 1		TION:		PPODUOTIO	ON INTERVAL.		
Vented Solo	ON OF GAS:  Used on Lease	Open Ho		IOD OF COMPLE $\Box$		nmingled	PRODUCTION	ON INTERVAL:		
	bmit ACO-18.)	Other (Si	necify)	(Submit		mit ACO-4)				

### QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Cell 785-324-1041

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

No. 7553

16 2 C 12 Sec.	1 - 1	inge	County	State	On Location	Finish				
Date 10 25-13 21	13 1	7   1	illis	KS		17001C				
Dretting u	unit	Lo	cation Toular	14 I - 70 -	N to Vineu	gard Rd, 26				
Lease	Well No	o. /	Owner to		N WIMD	J				
Contractor Discours	4			lwell Cementing, Inc. by requested to rent	cementing equipmen	t and furnish				
Type Job Surface			cementer and	d helper to assist ow	ner or contractor to d	o work as listed.				
Hole Size 1244	T.D. 10	<u> 230'</u>	Charge Do	amac Reso	uces	and the second s				
Csg. 85/8"	Depth /	30'	Street							
Tbg. Size	Depth		City		State					
Tool	Depth	-001	The above was	s done to satisfaction a	nd supervision of owner	.00				
Cement Left in Csg. 33	Shoe Joint	33		unt Ordered 450	5x Common	3% CC				
Meas Line	Displace	161413L	S 23 Gel							
EQUIPM			Common4	50	<u> </u>					
Pumptrk /6 Helper Di	114		Poz. Mix							
Bulktrk Driver ONO	id		Gel. 4	· · · · · · · · · · · · · · · · · · ·						
Bulkink D. W. Driver			Calcium /	<b>)</b>						
JOB SERVICES	& REMARKS	6 1	Hulls	<u> </u>						
Remarks: Cement did		icculate	Salt							
Rat Hole			Flowseal			4				
Mouse Hole			Kol-Seal	Kol-Seal						
Centralizers	**************************************		Mud CLR 48							
Baskets	*		CFL-117 or C	D110 CAF 38						
D/V or Port Collar			Sand							
			Handling 4	75						
			Mileage							
				FLOAT EQUIPM	ENT					
			Guide Shoe							
			Centralizer							
			Baskets							
			AFU Inserts							
		-	Float Shoe		<u> </u>					
			Latch Down		00.					
			1-Bata	e plate						
			1- Kubb	er bluch						
			Pumptrk Char	ge Long Su	v face					
			Mileage 9							
					Tax					
X di lima i					Discount					
Signature (Loff Mayfie	4				Total Charge					

TOMER	- Raca	10-00	WELL NO.	+,		LEASE /	11	JOB TYPE TICKET NO.	PAG			
CHART THE RATE			WELL NO. The LEASE Dreiling United States (PSI)				EDON	JOB TYPE TICKET NO. 2515				
NO.	TIME	RATE (BPM)	(BBL) (GAL)	T	С	TUBING	CASING	DESCRIPTION OF OPERATION AND MATERIALS				
	0920							onloculFE				
								RTD 2176' ITD 2176'				
		A						RTD 3675' LTD 3675' 52"X 14" X 3675 'X 22'				
								3 2 X 17 X 36/3 X 22				
				-	-			cent, 1, 3, 5, 7, 9, 11				
				<del> </del>	-		<u> </u>	Bash 2,12				
									enchesin			
	1030							StartFE Break Circ	no de la constancia de la			
	1145							Break Circ				
								·				
	1205		7/4					Plug BHAMH 30/15 she EA-2				
	1215		0				200	Plug RHEMH 30/15sks EA-2 Start Mudflush 500gol Stat KCL flush 20661	***************************************			
			12/0	-			200	etat KC fluid rabil				
		The second secon	20/0				200	Start 130sks EA-2 Cement	MO/Noticina			
	1227		32				200	F / 1 30 SKS FA-L CE Men!	mental pro-			
-			2 =					End Cement	descent to			
								Wash Pal	Name and Address of the Owner, where			
	in all	<u> </u>	27)	-				Wash Popl	Naples Cleans			
	1234	5	0				200	startDisplacement catch Cement				
	1244	3	59				25-0	Ratch Cement				
	1250		89				1400	Land Plug				
								Release Fressart				
								Float Held				
									Oraniestes			
									Kriteotopo			
					_				Protograpia			
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									determination			
			-		$\dashv$				Plante (ACCC)			

## JAMES C. MUSGROVE

Petroleum Geologist 212 Main Street Claflin, KS 67525 P.O. Box 215

Office (620) 588-4250

Res. Claflin (620) 587-3444

Damar Resources
Dreiling Unit #1
SE-SW-SW-NE (2525' FNL & 2115' F
Section 21-13s-17w
Ellis County, KS Page 1 FEL)

# 1/2" Production Casing Set

Contractor: Discovery Drilling Company (Rig #1)

Commenced: October 24, 2013

Completed: November 1, 2013

Elevation: 1996' K.B; 1994' D.F; 1988' G.L.

Casing program: Surface; 8 5/8" @ 1230' Production 5 1/2" @ 3674

3674

Sample:

Drilling time: One (1) foot drilling time recorded and kept 2900 ft to the Rotary Total

Samples saved and examined 2900' to the Rotary Total Depth.

Depth.

Measurements: All depths measured from the Kelly Bushing

Drill Stem Tests: There were six (6) Drill Stem Tests ran by Trilobite Testing Co.

Neutron/Density and Micro. By Pioneer Energy Services; Dual Induction, Compensated

Electric Log:

(All tops and zones co	Log Total Depth	Rotary Total Depth	Arbuckle	Base Kansas City	Lansing	Toronto	Heebner	Topeka	Base Anhydrite	Anhydrite	Formation Log Depth Sub-Sea Datum
rected to Electric I on a	3675	3675	3539	3524	3300	3276	3255	3014	1269	1223	Log Depth
appellromonts)	-1629	-1629	-1543	-1528	-1304	-1280	-1259	-1018	+727	+773	Sub-Sea Datum

(All tups allo zolles collected to Electric Log measurements).

### SAMPLE ANALYSIS, SHOWS 유 01 TESTING DATA,

ETC.

### TOPEKA SECTION

3014-3030' porosity. Limestone; brown/gray, fossiliferous, dense, poorly developed

3045-3052 Limestone; gray, slightly dolomitic, poor visible porosity, trace poor spotty light brown stain, no free oil and no odor in fresh

samples

Damar Resources
Dreiling Unit #1
SE-SW-SW-NE (2525' FNL & 2115' FEL)
Section 21-13s-17w
Ellis County, KS
Page 2

3067-3084 Limestone; tan, finely crystalline, fossiliferous, chalky in part, no

show.

3100-3118 Limestone; gray, tan, finely crystalline, fossiliferous, slightly

cherty, no shows.

3187-3200 Limestone; white/gray, finely crystalline, few fossiliferous, plus amber chert, no shows.

3208-3220

Limestone; white, gray, slightly fossiliferous, chalky, poor brown and black stain, no free oil and faint odor in fresh samples.

## TORONTO SECTION

3276-3290

Limestone; tan, gray, chalky, finely crystalline, poor intercrystalline type porosity, brown stain, no free oil and no odor

in fresh samples

## LANSING SECTION

3300-3308 Limestone; tan, gray, finely crystalline, chalky, poor porosity, no

shows

3313-3326 Limestone; white, gray, chalky, few cherty, no shows

3325-3338 Limestone; white/gray, slightly chalky, scattered vuggy type

porosity, trace stain, show of free oil and questionable odor in

fresh samples

Drill Stem Test#1 3250-3340

Times: 5-60-30-30

Blow: Weak

Recovery: 7' mud

Pressures: ISIP FSIP 386 108 psi psi

FP 16-16 psi

HSH FFP 17-20 1595-1567 psi psi

3346-3356 Limestone; white, gray, finely crystalline, few fossiliferous, chalky in part, brown spotty stain, no show of free oil and no odor in fresh samples, plus white chert.

3370-3376

Limestone; gray, white, finely oolitic, chalky, gray and brown stain and saturation, show of free oil and questionable odor in

fresh samples

3382-3390 Limestone; white/cream, oolitic/fossiliferous, slightly chalky, brown stain, trace of free oil and faint odor.

3393-3406 odor in fresh samples. Limestone; as above, sub comoldic in part, chalky, poorly developed porosity, trace stain, weak show of free oil and no

Page 3 Damar Resources
Dreiling Unit #1
SE-SW-SW-NE (2525' FNL & 2115' FEL)
Section 21-13s-17w Ellis County, KS

Drill Stem Test #2

Times: 5-60-45-45

Blow: Weak

Recovery: 10' oil spotted mud

Pressures: ISIP 340 osi

FFP 쿰 FSIP 20-29 15-18 273 psi psi psi psi

HSH. 1647-1637

3432-3446 Limestone; white, few fossiliferous, chalky, poor porosity, poor

stain, no show of free oil and no odor in fresh samples, plus

amber/gray chert.

3462-3470

Limestone; white, gray, finely crystalline, fossiliferous in part, scattered pinpoint porosity, trace brown stain and black stain, weak show of free oil and faint odor in fresh samples.

3474-3482

chalky, scattered porosity, light brown stain, trace of free oil and good odor in fresh samples.

Limestone; white/cream, finely crystalline, finely fossiliferous

3490-3500 Limestone; white, gray, cream, finely crystall fossiliferous, poor visible porosity, no shows. Limestone; white, finely crystalline, few

Drill Stem Test #3 3416-3515

Times: 5-60-45-45

Blow: Weak

Recovery: 2' mud, show of oil

Pressures: PISIP 294 psi

표무 psi psi

17-18 19-23

HSH 1699-1645 psi psi

3515-3525 Limestone; white, gray, chalky, few cherty, dense.

## ARBUCKLE SECTION

3539-3563

Dolomite; white, gray, fine and medium crystalline, scattered intercrystalline porosity, brown and golden stain/saturation, show of free oil and good odor in fresh samples, plus trace tan, sucrosic, dolomite, few sandy, fair stain, saturation, show of free

Drill Stem Test 控

3523-3563

Times: 5-60-45-45

Blow: Surface

Recovery: 29' oil cut mud

1' heavy oil cut mud (5% oil, 95% mud)

(45% oil, 55% mud)

Pressures: ISIP 1037 psi

FP FSIP 18-21 821 psi

HSH HSH FFP 22-32 1773-1701

Dolomite; as above, sucrosic, scattered porosity, good stain and saturation, show of free oil and fair/good odor in fresh samples. psi psi

3563-3578

3578-3586

Dolomite; gray, tan, sucrosic, good pinpoint and intercrystalline type porosity, good stain and saturation, show of free oil, trace white chert.

3586-3610 Dolomite; white/gray and cream finely crystalline, poor visible, plus white chalk, trace black dead stain, no free oil and no odor.

dolomite, no shows Dolomite; as above, plus white chert, trace pink finely crystalline

3610-3630

3630-3640 Dolomite; white, medium crystalline, fair porosity, plus amber

and gray chert.

3640-3650 Dolomite; pink and gray, white, finely crystalline, slightly cherty, dense, plus white chalk.

3650-3675 Dolomite; as above, fair to good porosity, no shows, plus white

chert.

Rotary Total Depth Log Total Depth 3675 (-1679) 3675 (-1679)

Remarks: Drill Stem Tests #5 & #6 were straddle tests

Drill Stem Test #5

3556-3582

Misrun - plugged tool

Damar Resources
Dreiling Unit #1
SE-SW-SW-NE (2525' FNL & 2115' FEL)
Section 21-13s-17w
Ellis County, KS
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Drill Stem Test #6

3557-3581

Times: 5-60-60-90

Blow: Good (7 1/2")

Final Flow: Weak to fair (5 1/2")

Recovery:

7' clean oil
8' mud cut oil
(40% mud, 60% oil)
125' slightly oil cut mud
(3% oil, 97% mud)

Pressures: FSIP FSIP 1079 1031

70-163 psi psi psi psi

FFP

HSH 1812-1749

Recommendations: 5 ½" production casing was set and cemented on the Dreiling Unit #1.

Respectfully submitted;



