

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division 1198804

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:			Sec	TwpS. R	East West
Address 2:			F6	eet from North /	South Line of Section
City:	State: Z	ip:+	Fe	eet from East /	West Line of Section
Contact Person:			Footages Calculated from I	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 C	Depth:
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:		Feet
Operator:			If Alternate II completion, c	cement circulated from:	
Well Name:			feet depth to:	w/	sx cmt.
Original Comp. Date:					
Deepening Re-perf	•	NHR Conv. to SWD	Drilling Fluid Managemer	nt Plan	
☐ Plug Back	Conv. to G		(Data must be collected from the		
Commingled	Pormit #:		Chloride content:	ppm Fluid volume	e: bbls
Dual Completion			Dewatering method used: _		
SWD			Location of fluid disposal if	hauled offsite	
☐ ENHR			1		
GSW	Permit #:		Operator Name:		
_ <del>_</del>			Lease Name:	License #:_	
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:			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 Pe	ercent 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	D & Z Exploration, Inc.
Well Name	Donovan #I-20
Doc ID	1198804

### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight		Type Of Cement		Type and Percent Additives
Surface	9.825	7	20	20	Portland	10	none
Production	5.625	2.825	6.2	924	50/50 poz	135	none



### REMUT TO

Consolidated Öil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE P.O. Box 884 Chanute, KS 66720 620/431-9210 • 1-800/467-8676

Fax 620/431-0012

D & Z EXPLORATION 901 N. ELM ST. P.O. BOX 159 ST. ELMO IL 62458 (618)829-3274 DONOVAN I-20 42698 NE 28-14-22 03-24-2014 KS

=======================================		==========		
Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	135.00	11.5000	1552.50
1118B	PREMIUM GEL / BENTONITE	427.00	.2200	93.94
1111	SODIUM CHLORIDE (GRANULA	284.00	.3900	110.76
1110A	KOL SEAL (50# BAG)	675.00	.4600	310.50
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50
Sublet Performed	Description			Total
9996-120	CEMENT MATERIAL DISCOUNT			-620.31
Description		Hours	Unit Price	Total
368 CEMENT PUMP		1.00	1085.00	1085.00
368 EQUIPMENT MILE	AGE (ONE WAY)	30.00	4.20	126.00
368 CASING FOOTAGE		924.00	.00	.00
370 80 BBL VACUUM	TRUCK (CEMENT)	2.00	100.00	200.00
548 MIN. BULK DELI	VERY	1.00	368.00	368.00

Amount Due 4030.88 if paid after 04/06/2014

========	=======		========	=======	========	=====	
Parts:	2097.20	Freight:	.00	Tax:	108.93	AR	3364.82
Labor:	.00	Misc:	.00	Total:	3364.82		
Sublt:	-620.31	Supplies:	.00	Change:	.00		
========	=======		========	=======		=====	==========

Signed	Date
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266818

TICKET NUMBE	42698
LOCATION_0	
FOREMAN COS	en Kennedy

PO Box 884, Chanute, KS 66720

## **FIELD TICKET & TREATMENT REPORT**

620-431-9210 c	or 800-467-8676		CEME	NT			
DATE	CUSTOMER#	WELL NAME & I	NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3/24/14	3392	Dorovan #	I-20	NE 28	-14	ည	20
CUSTOMER	_ , 1						A STATE OF THE STA
DtZ		n		TRUCK #	DRIVER	TRUCK#	DRIVER
MAILING ADDRE	ESS /	-1		729	Caskon	VSatoly	Meetin
901	N. Elm S	st		368	AdMad	V	
CITY		STATE ZIP CODI		548	Mik Ha	1	
St Elu		16249		370	JasiRic	V	
JOB TYPE low	artring	HOLE SIZE 55/8"	HOLE DEP	тн <u> 960'</u>	CASING SIZE & V	WEIGHT 87	"EVE
CASING DEPTH	1924	ORILL PIPE	TUBING			OTHER	
SLURRY WEIGH		SLURRY VOL			CEMENT LEFT IN		
DISPLACEMENT		DISPLACEMENT PSI			RATE 3 bo		
REMARKS: 40	eld sately .	nacting establi	shed circu	elation mis	od trup	ed 200#	Promice
Gel follo	wood by	o bbts fosh i	vater n	nixed + pur	uped 135	Sks 5950	Poznix
coment	ur/ 270 00	5% salt )	15# K	local por	sk cement	to surfe	ice .
Alcahed a	sup dean	annod 2)	2" relober	plug to a	wing TO w	15.356	ble fresh
water o	rossured.	to 800 PSI,	well hel	d plessure	for 30 a	in lut	released
are sure	ni truk.			<b>V</b>		$\sim$	
						.()	
			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1	
					-19	7/	
					<del>- ( /</del>		
ACCOUNT	QUANITY	or UNITS	DESCRIPTION	of SERVICES or P	RODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CI	HARGE				1085.000
5406	30 N	MILEAGE					126,00
5402	924'	Coin	a footage				-
5407	minim		mileage	-			368.00
5502C	2 /13		Vac				200.00
1124	135		Poznix			1552,50	
1118 B	427	# Freu	rium Gel	2		93,94	The same of the sa
1/4	284	# Sal	-			110.76	

Kolseel 675 # 11104 21/2" cubber plug 4462 SALES TAX ESTIMATED Ravin 3737 **TOTAL** DATE\_ TITLE AUTHORIZTION

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

03/21/2014

### WELL LOG

Thickness of Strata	Formation	Total Depth
4	soil/clay	4
16	sandstone	20
3	lime	23
17	shale	40
5	lime	45
19	shale	64
5	lime	69
4	shale	73
13	lime	86
9	shale	95
8	lime	103
9	shale	112
20	lime	132
15	shale	147
20	lime	167
8	shale	175
56	lime	231
22	shale	253
9	lime	262
17	shale	279
7	lime	286
5	shale	291
9	lime	300
34	shale	334
1	lime	335
11	shale	346
25	lime	371
7	shale	378
24	lime	402
4	shale	406
4	lime	410
6	shale	416
6	lime	422
5	shale	427
16	sandy shale	443
89	shale	532
7	sand	539
51	shale	590
4	lime	594
3	shale	597

Lease Owner:D and Z

# Johnson County, KS Well:Donovan #I-20 Town Oilfield Service, Inc. (913) 837-8400 Commenced Spudding: 03/21/2014

03/21/2014

8         shale         608           8         lime         616           14         shale         630           3         lime         633           6         shale         639           5         lime         644           3         shale         647           3         lime         650           37         shale         687           20         sand         707           7         sandy shale         714           41         shale         755           7         broken sand         762           5         sandy shale         767           27         shale         794           6         sand         800           71         shale         871           1         broken sand         872           2         sandy lime         874           3         sand         877           1         sand         881           3         sand         881           1         broken sand         882           2         broken sand         884           6 <t< th=""></t<>
14     shale     630       3     lime     633       6     shale     639       5     lime     644       3     shale     647       3     lime     650       37     shale     687       20     sand     707       7     sandy shale     714       41     shale     755       7     broken sand     762       5     sandy shale     767       27     shale     794       6     sand     800       71     shale     871       1     broken sand     872       2     sandy lime     874       3     sand     877       1     sand     878       3     sand     881       1     broken sand     882       2     broken sand     882       2     broken sand     884
3       lime       633         6       shale       639         5       lime       644         3       shale       647         3       lime       650         37       shale       687         20       sand       707         7       sandy shale       714         41       shale       755         7       broken sand       762         5       sandy shale       767         27       shale       794         6       sand       800         71       shale       871         1       broken sand       872         2       sandy lime       874         3       sand       877         1       sand       878         3       sand       881         1       broken sand       882         2       broken sand       884
6       shale       639         5       lime       644         3       shale       647         3       lime       650         37       shale       687         20       sand       707         7       sandy shale       714         41       shale       755         7       broken sand       762         5       sandy shale       767         27       shale       794         6       sand       800         71       shale       871         1       broken sand       872         2       sandy lime       874         3       sand       877         1       sand       878         3       sand       881         1       broken sand       882         2       broken sand       884
5         lime         644           3         shale         647           3         lime         650           37         shale         687           20         sand         707           7         sandy shale         714           41         shale         755           7         broken sand         762           5         sandy shale         767           27         shale         794           6         sand         800           71         shale         871           1         broken sand         872           2         sandy lime         874           3         sand         877           1         sand         878           3         sand         881           1         broken sand         882           2         broken sand         884
3     shale     647       3     lime     650       37     shale     687       20     sand     707       7     sandy shale     714       41     shale     755       7     broken sand     762       5     sandy shale     767       27     shale     794       6     sand     800       71     shale     871       1     broken sand     872       2     sandy lime     874       3     sand     877       1     sand     878       3     sand     881       1     broken sand     882       2     broken sand     884
3     lime     650       37     shale     687       20     sand     707       7     sandy shale     714       41     shale     755       7     broken sand     762       5     sandy shale     767       27     shale     794       6     sand     800       71     shale     871       1     broken sand     872       2     sandy lime     874       3     sand     877       1     sand     878       3     sand     881       1     broken sand     882       2     broken sand     884
37     shale     687       20     sand     707       7     sandy shale     714       41     shale     755       7     broken sand     762       5     sandy shale     767       27     shale     794       6     sand     800       71     shale     871       1     broken sand     872       2     sandy lime     874       3     sand     877       1     sand     878       3     sand     881       1     broken sand     882       2     broken sand     884
20     sand     707       7     sandy shale     714       41     shale     755       7     broken sand     762       5     sandy shale     767       27     shale     794       6     sand     800       71     shale     871       1     broken sand     872       2     sandy lime     874       3     sand     877       1     sand     878       3     sand     881       1     broken sand     882       2     broken sand     884
7       sandy shale       714         41       shale       755         7       broken sand       762         5       sandy shale       767         27       shale       794         6       sand       800         71       shale       871         1       broken sand       872         2       sandy lime       874         3       sand       877         1       sand       878         3       sand       881         1       broken sand       882         2       broken sand       884
41       shale       755         7       broken sand       762         5       sandy shale       767         27       shale       794         6       sand       800         71       shale       871         1       broken sand       872         2       sandy lime       874         3       sand       877         1       sand       878         3       sand       881         1       broken sand       882         2       broken sand       884
41       shale       755         7       broken sand       762         5       sandy shale       767         27       shale       794         6       sand       800         71       shale       871         1       broken sand       872         2       sandy lime       874         3       sand       877         1       sand       878         3       sand       881         1       broken sand       882         2       broken sand       884
5     sandy shale     767       27     shale     794       6     sand     800       71     shale     871       1     broken sand     872       2     sandy lime     874       3     sand     877       1     sand     878       3     sand     881       1     broken sand     882       2     broken sand     884
5       sandy shale       767         27       shale       794         6       sand       800         71       shale       871         1       broken sand       872         2       sandy lime       874         3       sand       877         1       sand       878         3       sand       881         1       broken sand       882         2       broken sand       884
27     shale     794       6     sand     800       71     shale     871       1     broken sand     872       2     sandy lime     874       3     sand     877       1     sand     878       3     sand     881       1     broken sand     882       2     broken sand     884
6     sand     800       71     shale     871       1     broken sand     872       2     sandy lime     874       3     sand     877       1     sand     878       3     sand     881       1     broken sand     882       2     broken sand     884
71     shale     871       1     broken sand     872       2     sandy lime     874       3     sand     877       1     sand     878       3     sand     881       1     broken sand     882       2     broken sand     884
1     broken sand     872       2     sandy lime     874       3     sand     877       1     sand     878       3     sand     881       1     broken sand     882       2     broken sand     884
3     sand     877       1     sand     878       3     sand     881       1     broken sand     882       2     broken sand     884
3     sand     877       1     sand     878       3     sand     881       1     broken sand     882       2     broken sand     884
3     sand     881       1     broken sand     882       2     broken sand     884
1         broken sand         882           2         broken sand         884
2 broken sand 884
6 sandy shale 890
6 broken sand 896
4 sandy shale 900
23 shale 923
10 sand 933
27 shale 960-TD

## **Short Cuts**

TANK CAPACITY

BBLS. (42 gal.) equals D<sup>2</sup>x.14xh D equals diameter in feet. h equals height in feet.

**BARRELS PER DAY** Multiply gals, per minute x 34.2

HP equals BPH x PSI x .0004 BPH - barrels per hour PSI - pounds square inch

#### TO FIGURE PUMP DRIVES

- \* D Diameter of Pump Sheave
- \* d Diameter of Engine Sheave

SPM - Strokes per minute

**RPM** - Engine Speed

R - Gear Box Ratio

\*C - Shaft Center Distance

D - RPMxd over SPMxR

d - SPMxRxD over RPM

SPM - RPMXD over RxD

R - RPMXD over SPMxD

BELT LENGTH - 2C + 1.57(D + d) +  $\frac{(D-d)^2}{4C}$ 

\* Need these to figure belt length

TO FIGURE AMPS:

WATTS = AMPS

**VOLTS** 

746 WATTS equal 1 HP

# Log Book

Well No. # 1-30				
Farm	Don	overn		
	KS	5	shusen	
(State)			(County)	
	28	14	27	
(Section)		(Township)	(Range)	
For_	0+2	Cxpbrat	icov	
		(Well Owner)		

## **Town Oilfield** Services, Inc.

1207 N. 1st East Louisburg, KS 66053 913-710-5400

State; Well No. 1-30	CA Feet				In.
Elevation 1050				2.44	
Commenced Spuding 3-21 20 14					
Finished Drilling 3-24 20 14					
Driller's Name Chard Warver					
Driller's Name					
Driller's Name				12	
Tool Dresser's Name Cala Holcom					
Tool Dresser's Name Ryon Word					
Tool Dresser's Name					
Contractor's Name TOS					
(Section) (Township) (Range)					
Distance from _ S line, \\\ \frac{\frac{1}{2}\text{CO}}{\text{ft.}}					14 1
Distance from E line, 2305 ft.					
Distance Iron					
		Lessan			
3-Sacks					
CASING AND TUBING	-				
RECORD	The state of the s				
NEGOTIE					
10" Set 10" Pulled					
78" Set 2165 8" Pulled	-				
6¼" Set 6¼" Pulled					
4" Set 4" Pulled					
24 Set 994 <sup>25</sup> 2" Pulled	Agency of the State of		-1-		
91.070	Circuit consens				

	1	-525
-	1	

Thickness of Strata	Formation	Total Depth	Remarks
- Strata	saldas	H	Nemarks
16	sandstone	20	
3	Lime	23	
17	shale	140	worker
5	Lime	45	Set R
19	shale	64	and the same of th
5	Lime	69	and a second
4	shele	73	The state of the second
13	Lime	86	and the second of the second
9	shalo	95	i i i i i i i i i i i i i i i i i i i
8	Lime	103	in the contract of the
9	shato	112	The state of the s
20	Lime	132	and the second s
15	shale	147	2.2. 2.
20	Lime	١٢٦	
8	Should	195	
56	Lime	231	1.3.2
22	Shoule	253	
9	Lime	262	
	shale	279	
7	Lime	286	
5	shale	291	25.00
9	Line	300	
34	shale	334	
	Lime	335	
11	shelle	340	
25	Lime	371	

This		371	
Thickness of Strata	Formation	Total Depth	Remarks
7	shale	378	
27-1	Lime	402	2007
Ч	shale	10C	
1-1	Lime	110	
6	sharke	1410	
(	Lime	422	- Harther
5	shale	1427	140040(C)
16	early shale	'4'43	
89	Shale	532	
	send	539	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
51	shele	590	sney, no oil
14	Lime	594	
3	shalo	597	
3	Lime	600	
8	shale	608	- 137
લ	Lime	CIL	
14	shalo	630	
3	Lima	633	
6	shalo	639	
5	Lime	44	
3	shale	647	
3	Lime	650	
37	shale	687	red bed - 655
20	sand	TOT	
7	sendychalo	714	ensy, No Oil
41	shale	755	
7	Brokensend	762	odor, 1.44e oil, Brown sin

-5-

		762	
Thickness of Strata	Formation	Total Depth	Remarks
5	sandyshale	767	
27	chale	794	
<u> </u>	sond	800	suey, no oil
71	Shale	871	
	Broken and	873	odor, with sand, Line ,5%.
2	sand y Lima	674	nooil
3	sand	877	36% 0,1
	sund	878	80% sol. do. 1, 4 ch & blacking
3	sind	881	70%- 90% 0.1
	Broken soy d	887	5%- 15% 01
2	Broken sud	884	296 01
6	and + chale	890	
- (	Broken sad	896	20 0.1
4	sandy shale	000	
23	Sherla	923	
10	sand	933	white I gray, NO OI
27	shale	960	TO
		3	
		The state of the s	