

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1227101

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		∐ SIOW □ SIGW	Elevation: Ground:	Kelly Bushing:	:
	☐ ENHR ☐ 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:		
_ _			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 III Approved by: Date:



Operator Name:			Lease Name: _			Well #:	
Sec Twp	S. R	East West	County:				
open and closed, flow	ing and shut-in pressu	ormations penetrated. Eures, whether shut-in preith final chart(s). Attach	essure reached stati	c level, hydrosta	atic pressures, bott		
		tain Geophysical Data a r newer AND an image		gs must be ema	ailed to kcc-well-lo	gs@kcc.ks.go	v. Digital electronic log
Drill Stem Tests Taken (Attach Additional S		Yes No			on (Top), Depth an		Sample
Samples Sent to Geol	logical Survey	☐ Yes ☐ No	Nam	е		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING	RECORD Ne	w Used			
		Report all strings set-			ion, etc.		
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
		ADDITIONAL	CEMENTING / SQL	JEEZE RECORD			
Purpose: Perforate Protect Casing Plug Back TD	Depth Top Bottom	Type of Cement	# Sacks Used		Type and P	ercent Additives	
Plug Off Zone							
Does the volume of the to		n this well? aulic fracturing treatment ex submitted to the chemical (_	Yes [? Yes [Yes [No (If No, ski	p questions 2 ar p question 3) out Page Three	
Shots Per Foot	PERFORATIO	N RECORD - Bridge Plug	s Set/Type		cture, Shot, Cement		
	Specify Fo	ootage of Each Interval Per	forated	(A	mount and Kind of Ma	terial Used)	Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No		
Date of First, Resumed	Production, SWD or ENH	IR. Producing Meth		Gas Lift (Other (Explain)		
Estimated Production Per 24 Hours	Oil B	bls. Gas	Mcf Wate	er B	bls. G	as-Oil Ratio	Gravity
DISPOSITIO	ON OF GAS:	Open Hole	METHOD OF COMPLE Perf. Dually (Submit)	Comp. Cor	mmingled	PRODUCTIO	ON INTERVAL:
(If vented, Sub	omit ACO-18.)	Other (Specify)	(Submit)	100-3) (SUB	omit ACO-4)		

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Teichmann OWWO 1-5
Doc ID	1227101

All Electric Logs Run

DIL	
DUCP	
MEL	
BHCS	
CBL	

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Teichmann OWWO 1-5
Doc ID	1227101

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight		Type Of Cement		Type and Percent Additives
Surface	12.2500	8.6250	23	267		370	
Production	7.8750	5.5000	17	3788	AA-2, RH, MH	185	

CELLS WITH BLUE BACKGROUND	ARE THE ONLY CELLS TO BE EL	OITED
Company Name:	Murfin Drilling Co. Inc.	
Fracture Start Date/Time:	7/16/14 10:14	
Fracture End Date/Time:	7/16/14 12:08	
	Kansas	
County:	Stafford	
Legal Description:	5-22S-12W	
API Number:	15-185-23632-0001	
Well Name:	Teichmann OWWO #1-5	
Longitude:	-98.6606796	
Latitude:	38.1682185	

Additive	Specific Gravity	Additive Quantity	Mass (lbs)	
Water	1.00	365,022	3,046,109	
Sand (Proppant)	2.65	155,700	155,700	
AMA-398	0.75	20	20	
Plexgel Breaker XPA	1.03	69	593	
Plexset 730	0.90	80	601	
Plexset 730	0.90	80	601	
Plexsurf 580 ME	0.95	90	713	
Plexsurf 580 ME	0.95	90	713	
Plexslick 957	1.11	251	2,325	
Claymax	1.09	180	1,637	
			TO 4 1 CO 3.5 (T.1.)	

Ingredients Section:

Total Slurry Mass (Lbs)
3,209,013

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Operator	Carrier/Base Fluid	Water	7732-18-5	100.00%	3,046,109	94.92355%	
Sand (Proppant)	Uniman	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	100.00%	155,700	4.85196%	
AMA-398	Chemplex	Biocide	Dazomet	533-74-4	98.00%	20	0.00061%	
Plexgel Breaker XPA	Chemplex	Slickwater Breaker	Hydrogen Peroxide	7722-84-1	7.00%	42	0.00129%	
Plexset 730	Chemplex	Activator	Methanol	67-56-1	50.00%	300	0.00936%	
Plexset 730	Chemplex	Activator	Alcohol Ethoxylates	Mixture	60.00%	361	0.01123%	
Plexsurf 580 ME	Chemplex	Product Stabalizer	Methyl Alcohol	67-56-1	10.00%	71	0.00222%	
Plexsurf 580 ME	Chemplex	Product Stabalizer	2-Butoxyethanol	111-76-2	50.00%	357	0.01112%	
Plexslick 957	Chemplex	Friction Reducer	Petroleum Hydrotreated Light Distillate	64742-47-8	25.00%	581	0.01811%	
Claymax	Chemplex	Clay Stabilizer	No hazardous ingredient	NA	0.00%	0	0.00000%	
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component

1899, ENL 1242' FEL SEC. S - T225 - RIZW STAFFORD CTY KS THE MURFIN DRLC DRILLING DEVIATION TEICHMANN 'A' #1 CHARTER ENERGY INC. REFERENCE WELL FOR STRUCTURE 3792 HTY30 JATOT of Penetration **11161 -**3800 117-1998 **YKBNCKLE** 5+ 68L1 -AN TIME IN MINUTES
PER FOOT 5+ fiELI -3915 AN HS NOSAWIS Ō EL91 -1598 AM AJOIV 5+ 1991 -3545 AN BKC 1+ LANSING -1425 3303 AN BROMN TIME AN TEICHMANN 'OWWO' 9+ 3202 AN DOUGLAS - 1354 AN 0121-8818 TORONTO 5+ AM HEEBNEG 0621 -3918 AN +3 046-2818 TOPEKA 8L11 + OOL AN ANHYDRITE - BASE 1+ 3750 3800 2800 AM 0 6611+ 6L9 ANHYDRITE - TOP DEPTH 401 901 MUTAG TOP POSITION MOITAMROT 37HMA2 STRUCTURAL A32-8US ELECTRIC RIGHT. FORMATION TOPS & STRUCTURAL POSITION 3750' LITHOLOGY MEL / BHCS CAL / CDL 3792 PRODUCTION 51/2@ 3791' WAS A 别上 'T&S 28/8 BSAFFIUS GEND STECHNON SHAPPS PIONEER ENERGY SER. CASING RECORD CHARTER ENERGY SAMPLE DESCRIPTIONS CECALOGICAL SUPERVISION FROM ASSOCIATE DUTY OFFITH PI JUNE IF COMPTEED 23 JUNE IH Limestone **0085** COMMENCE MUREIN DRILLING CO. RIG #21 3800 ESLE MAD COMMIN WAD CO SERVICE MUD **2800** 10-00-75767-591-51 :14Y RB ZAZNAN Ool.Lime L981 STAFFORD 8781 **ELEVATION:** CHARTER ENERGY INC TEICHMANN 'A' #1. RGE ISM 577 dsml PRODUCTION: TOCYMON 18PP, ENT 1545, EEF SMOHS 710 MILDCAT TEICHWANN DWWO' # 1-5 @ SA1': @ 2081': @ 2081': @ 1033': @ 3184': 577 Dolomite 3 MURFIN DRILLING CO. 88 0.50 15M 700 WICHITA, KANSAS (-1921)CONSULTING GEOLOGIST REPORT **CEOLOGIC**

LOG 7710

SCHM01-12

Teichmann OWWO #1-5

Operator: Murfin Drilling Company, Inc. Contractor: Murfin Drilling Company, Inc. Rig #21

Kepwen Prospect #3866 1866' FNL 1242' FEL Sec. 5-22S-12W

Stafford County, Kansas

Contact Person: Michel Runnion Phone number: 316-267-3241 Well site Geologist: Charles Schmaltz

Call Depth: MIRT

Spud: 6/21/14 @ 6:00PM Complete:

6/23/14

API # 15-185-23632-00-01 Casing:

8 5/8" @ 267' 5 1/2" @ 3788'

RTD: 3800' 1867' GL Elevation:

1878' KB

DAILY INFORMATION:

6/21/14 MIRT

Depth 2684'. Cut 2684'. DT: None. CT: None. Dev.: 1/20 @ 559', 1035' & 2081'. Spud @ 6/22/14

6:00PM 6/21. Location very sandy 2 Cats pulled trucks. Picked up PDC bit & near bit stabilizer & drill cmt plugs & wash to 1033'. TOOH & lay down PDC bit & stabilizer, TIH

& wash & ream to 2684'. Circ salt water out @ 1700 when washing down.

RTD: 3800', Cut 1116', DT: None, CT: None, Dev.: 11/4° @ 3753', HC @ 3:15PM 6/22. 6/23/14

Bridge @ 550', 12:15AM 6/23. TIH & circ 90mins, spot 100BBLs. Pioneer started

logging @ 5:45AM 6/23. LTD: 3792'.

RTD: 3800'. Pioneer finished logging @ 9:15AM 6/23. Ran 87its of 17# 5 1/2" prod csg. 6/24/14

set @ 3788'. Basic cmt w/187sxs of AA-2. 30sxs RH, 20sxs MH. RR @ 11:45PM

6/23/14. FINAL REPORT

	Teichmann OWWO #1-5				
	1866FNL	1242FEL			
	Sec. 5-T22	2S-R12W			
	1878	'KB			
Formation	Log tops	Datum			
Anhydrite	678	+1200			
B/Anhydrite	695	+1183			
Topeka	2818	-940			
Heebner	3168	-1290			
Toronto	3188	-1310			
Lansing	3303	-1425			
Stark	3497	-1619			
BKC	3542	-1664			
Arbuckle	3667	-1789			
RTD	3800				
LTD	3792				



PAGE	CUST NO	YARD #	INVOIGE-DATE					
1 of 1	1002852	1718 /	07/14/2014					
INVOICE NUMBER								
	91539617							

Pratt

(620) 672-1201

B MURFIN DRILLING

PQ Box: 288

RUSSELL

KS US

67665

o ATTN:

ACCOUNTS PAYABLE

LEASE NAME Teichmann OWWO

LOCATION

COUNTY

Stafford

STATE

JOB DESCRIPTION

Cement-New Well Casing/Pi

1-5

JOB CONTACT

JOB #	BONIBWRMA #	PURCHASE	ORDER NO.		TERMS	DUE DATE		
40743334	19843				Net - 30 days	08/13/2014		
			QTY	U of	UNIT PRICE	INVOICE AMOUNT		
or Service Dates	s: 06/23/2014 to 0	6/23/2014						
				L	SED FOR	105		
0040743334					PPROVED A	Tun L		
					TEROVED 141	invise observations		
171811002Z Ceme	ent-New Well Casing/Pi	06/23/2014			l old	INVERS OFFORM		
Cement 5 1/2" Long		!			0,000	095 tax dutor		
AA2 Cement			185.00		12.75	_,		
60/40 POZ			50.00		9.00	1		
C-41P			44.00		3.00			
Salt			916.00		0.38			
Cement Friction Rec	ducer		53.00		4,50 3.86			
C-44			174.00 87.00	= :	5.62			
FLA-322			500.00		1.13	l .		
Mud Flush Gilsonite			925.00		0.50			
Claymax KCL Subst	iituta		5.00		26.25	1		
•	& Baffle, 5 1/2"" (Blu		1.00		300.00			
"Auto Fill Float Sho			1.00		270.00	i .		
"Turbolizer, 5 1/2"			10.00		82.50			
Cement Scratchers			20.00	EA	37.50	750.0		
"Unit Mileage Chg	- ·		40.00	MI	3.19	127.5		
Heavy Equipment N			80.00	MI	5.25	420.0		
"Proppant & Bulk D	el. Chgs., per ton mil		434.00	EA	1.65	716.1		
Depth Charge; 300	1-4000'		1.00	ËA	1,620.00	1,620.0		
Blending & Mixing 5	Service Charge		235.00	BAG	1.05	246.7		
Casing Swivel Rent	al		1.00	EA	150.00	1		
Plug Container Util.	Chg.		1.00		187.50	į.		
"Service Supervisor	r, first 8 hrs on loc.		1.00	EA	131.25	131.2		
				·				

PO BOX 841903 DALLAS, TX 75284-1903

BASIC ENERGY SERVICES, LP BASIC ENERGY SERVICES, LP 801 CHERRY ST, STE 2100 FORT WORTH, TX 76102

SUB TOTAL

TAX

INVOICE TOTAL

12,004.6

Z 8098.0001.1 (410.70) 10103



1718 **11002** ZX

	ENERGY PRESSURE PUMPI		one 620-672	2-1201	HAV		DATE	TICKET NO			
DATE OF JOB	13,2014 DI	ISTRICT Preta.	KS	WEN NEW	WELL OLD	ROD INJ	□WDW	□8	USTOMER RDER NO.:		
CUSTOMER /	nurfin I	Pulling Co. J			LEASE 7	eich	menh	0040	-	WELL NO.	<i>J</i> -:
ADDRESS					COUNTY			STATE	上	 კ	
CITY		STATE			SERVICE C	_	•	32, Jos	b. C	Orev	``
AUTHORIZED E	BY				JOB TYPE:			887rin		estu	Z
EQUIPMEN	T# HRS	EQUIPMENT#	HRS	EQI	JIPMENT#	HRS	TRUCK CAL		2º27		IME
27283							ARRIVED AT	r JOB	_		<u>. 00</u>
19885							START OPE		6-2.		
9843									-23		
19535	1]	FINISH OPE		-23		
73768							RELEASED	6	-27	es 5: 0	lo
,, <u> </u>			1 1"				MILES FROM	N STATION T	OWELL	- 42	
ITEM/PRICE REF. NO.	- 	ATERIAL, EQUIPMENT	AND SERVI	CES US	ED	UNIT	QUANTITY	EP, OPERATOR		\$ AMOU	
2P105	PB2C	ement				SK	185			3.145	0
=P103	60/40 3	P0Z				SK	50			600	00
?0105	C-41P				•••	46	44			176	2
SC111 .	5917				#.#	16	916			458	00
2112	Cement	Friction Red	Sucen_			16	53			3/8	α
2115	C-44					49	174			896	14
2C129	FLD-32			 .		100	8/			<u>652</u>	55
C 201	6.130h.	<u> </u>	- 04.	1/	70. 3	10	925			6/9	7
F60/	LASCA DO	my Plug & B	9FF/E	5/	. (Blue)	ES				700	O
2F1201	PUL FIL	1 Flogs Shoe		15100		E9 E9	10			360	00
F2002	107 601, 2	ers, 5/2 (Blue Screechers E	e) 20298.ns	7		ES	20			1,100	00
15 151	MUZFIUST		-CATY O'N	1X/-	<u>'e </u>	651	500			750	_==
2704		KCL Subser		·		651	5			175	00
Elao		esse Charse-	_	. 		m.	40			170	02
2101	Heev Ed	supres - Miles	- F-1544-45-			mi	80			560	00
5117	Bulk Del.		<i></i>			Thin				954	80
EE 204	Depto C	hersei 3001-	Locu!		,,	4/10		****		2160	00
5 240		& MULING SOTU		rs.e	· · · · · · · · · · · · · · · · · · ·	SX	235			329	8
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									TOTAL		
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SERVICE REPRESEN T ATI	VE Dane	i trach			RIAL AND SE	RECEIVE		, tool			
						(WELL O'	NNER OF ERAT	OF CONTRAC	TOR OR	AGENT)	_



10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124 Phone 620-672-1201

FIELD SERVICE TICKET

1718 11003 A Consintus 2000

JOB 6-2	13-2014 0	ISTRICT Prays	105	WELL	NEW OLD ROD INJ WDW CUSTOMER ORDER NO.: LEASE Te.'ch msnn owo Well no. 1-3 COUNTY 8+9 Proye STATE 1CS									
CUSTOMER /	nurlin	Drilling Co.	Inc.	LEASE T										
ADDRESS			•	COUNTY										
CITY		STATE			SERVICE CREW Dorin, Ed, Josh									
AUTHORIZED B	JY			JOB TYPE:	JOB TYPE: CON LONS String - COSTUC									
EQUIPMENT	T# HRS	EQUIPMENT#	HRS	EQUIPMENT#	UIPMENT# HRS TRUCK CALLED D.									
						ARRIVED AT	JOB	AM PM						
			- -			START OPER	RATION	AM PM						
			+ +	· · · · · · · · · · · · · · · · · · ·		FINISH OPER	RATION	AM PM						
					•n[RELEASED		AM PM						
					MILES FROM STATION TO WELL									
TEM/PRICE REF. NO.		ATERIAL, EQUIPMENT		CES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOU	NT					
E561	Casins	Swivel Ren	<i>t-</i> 5/		Eg			200						
E504	Plus Co	Supervisor, Fi	1, 290,0	n Charse	Job Es			250	0					
								-						
						1 🕶								
								,	+					
CHI	EMICAL / ACID DA	TA:	1				SUB TOTA	AL 11,586.	. 80					
СН	EMICAL / ACID DA	TA:		SERVICE & EQU	IPMENT	%TAX	SUB TOTA	AL 11,586,	. 80					
СН	EMICAL / ACID DA	TA:		SERVICE & EQU MATERIALS	IPMENT		ON \$. 80					
СН	EMICAL / ACID DA	TA:			IPMENT		ON \$. 80					



TREATMENT REPORT

			,,,,																
Customer	UCPID D	(1)	insc	Inc	, L	ease No.						Date		, _	_				
Lease Teichman Owva					W	Well # 1-5							6-23-2014						
Field Order	# Station	P	~\$++,	<u>r</u> s				Casing	5/2.	Depth	3788	Count	y So	1001	2	Т	Slate /C_	<u> </u>	
Type Job			soria		C.		Z	CNN	Foi	mation	TD-30	3 <i>0</i> 0		Legal	Description	5	- 22-	Jz	
PIP	E DATA		PERF	ORAT	ring	NG DATA FLUID U						TREA		NT RESUME					
Casing 6i7e	Tubing Si	ze	Shots/F	t		Acid				RATE PRESS				SS	ISIP				
Depth 378	Depth		From		То		Pr	e Pad	Max 5 M					Min.					
Volume 88			From		То	Pad					Min				10 Min		•		
Max Press	Press Max Press From		To		Frac				Avg				15 Min,			_			
Well Connecti	ion Annulus \	s Vol			То						HHP Used				Annulu	is Pre	ssure		
Plug-Septh-	Packer D	epth	From		To		1	ush			Gas Volume				Total Load				
Customer Re	presentative					Station Manager Ke			un Gorèlen			Treater Darin			Franklin				
Service Units	27783	158	S& S	1584	13/	1995	۶	73768						<u> </u>		_			
Driver Names	Dena	E	\	E٤		Jash		JUSA			 	<u> </u>		1		_			
Time	Casing Pressure_		ubing essure	Bbls	Bbls. Pumped			Rate	<u> </u>			Service Log							
3100pm									on Locarion) Salery meering										
			_						<u> </u>								····		
7:00pm	200				5				Pump 5 bbis water										
	200			12		6		12 bbis MUDFlush											
	200				5		<u> </u>		5 bbs wster										
	200			47			6		Mix 1850x AA 2 Cement										
<u> </u>						\rightarrow		··			บบท								
							··· · · · · · · · · · · · · · · · · ·		WASH DUMP & Lines										
					<u> </u>	_				Rejesse Plug									
	100				0			6	Start Juspiccoment							·			
	400			60				<u>6</u> 3	Lift Gressure						A				
	600	<u> </u>		85			3		Slow Rage										
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	100			<u>'</u>	<u> </u>	-			3103	nou	DE NOIL	<u> </u>	_						
8:00p								· · · · · · · · · · · · · · · · · · ·	175	h /	Comple	· 0 1	De	د	Cva .				
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