

Co	nfiden	tiality	/ Requested:
	Yes	N	lo

Kansas Corporation Commission Oil & Gas Conservation Division

1171826

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: State: Zip:+	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.xxxxxx) (e.gxxx.xxxxxxx)					
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84					
Purchaser:	County:					
Designate Type of Completion:	Lease Name: Well #:					
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:					
□ Oil □ WSW □ SHOW □ Gas □ D&A □ ENHR □ SIGW □ OG □ GSW □ Temp. Abd. □ CM (Coal Bed Methane) □ Cathodic □ Other (Core, Expl., etc.): If Workover/Re-entry: Old Well Info as follows:	Producing Formation: Kelly Bushing: Total Vertical Depth: Plug Back Total Depth: Feet Multiple Stage Cementing Collar Used? Yes No 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 Plug Back Conv. to GSW Conv. to Producer Commingled Permit #: Dual Completion Permit #: SWD Permit #:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) Chloride content: ppm Fluid volume: bbls Dewatering method used: Location of fluid disposal if hauled offsite:					
☐ ENHR Permit #: ☐ GSW Permit #:	Operator Name:					
GSW Permit #:	Lease Name: License #:					
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	Quarter Sec. Twp. S. R. East West 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

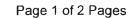


Operator Name:				Lease N	Name: _			_ Well #:		
Sec Twp	S. R	East	West	County	:					
	ow important tops of fo ing and shut-in pressu o surface test, along wi	res, whe	ther shut-in pre	ssure reacl	hed stati	c level, hydrosta	tic pressures, bo			
Final Radioactivity Logilles must be submitted						gs must be ema	iled to kcc-well-lo	ogs@kcc.ks.go	v. Digital	electronic log
Drill Stem Tests Taken (Attach Additional S		Ye	es No			3	on (Top), Depth a			Sample
Samples Sent to Geol	ogical Survey	Ye	es 🗌 No		Nam	9		Тор	L	Datum
Cores Taken Electric Log Run		☐ Y€								
List All E. Logs Run:										
			CASING	RECORD	│ Ne	w Used				
		Repo				rmediate, producti	on, etc.			
Purpose of String	Size Hole Drilled		e Casing : (In O.D.)	Weig Lbs./		Setting Depth	Type of Cement	# Sacks Used		and Percent dditives
									<u> </u>	
Purpose	Depth					EEZE RECORD				
Purpose: Perforate	Top Bottom	Туре	of Cement	# Sacks	Used		Type and I	Percent Additives		
Protect Casing Plug Back TD										
Plug Off Zone										
Did you perform a hydrau	ilic fracturing treatment or	n this well?	·			Yes	No (If No, sk	ip questions 2 ar	nd 3)	
	otal base fluid of the hydra		•		•			ip question 3)		
Was the hydraulic fractur	ing treatment information	submitted	to the chemical of	disclosure reg	gistry?	Yes	No (If No, file	out Page Three	of the ACC)-1)
Shots Per Foot			ID - Bridge Plug Each Interval Perl				cture, Shot, Cemen		b	Depth
TUBING RECORD:	Size:	Set At:		Packer At	t:	Liner Run:				
							Yes No			
Date of First, Resumed	Production, SWD or ENH	R.	Producing Meth Flowing	nod:	g 🗌	Gas Lift C	other (Explain)			
Estimated Production Per 24 Hours	Oil Bl	bls.	Gas	Mcf	Wate	er Bl	ols.	Gas-Oil Ratio		Gravity
DIODOGITI	ON OF CAC			ACTUOD OF	COMPLE	TION		DDODUGT		
Vented Sold	ON OF GAS: Used on Lease		N Open Hole	NETHOD OF \Box Perf.	Dually	Comp. Con	nmingled	PRODUCTIO	λΝ ΙΝΙΕΚ\	/AL:
(If vented, Sub			Other (Specify)		(Submit A		mit ACO-4)			

Form	ACO1 - Well Completion
Operator	Richlan Drilling, a General Partnership
Well Name	Ummel Brothers Trust #4
Doc ID	1171826

Tops

Name	Тор	Datum		
Heebner	3658	-1384		
Lansing Kansas City	3701	-1427		
ВКС	3996	-1722		
Marmaton	4040	-1766		
Pawnee	4117	-1843		
Fort Scott	4202	-1928		
Cherokee Shale	4227	-1953		
Mississippi	4292	-2018		





DIAMOND TESTING, LLC

P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313 UMMELBROTHERSTRUST4DST1

Company Richlan Drilling	Lease & Well No. Um	mel Brothers Trust No. 4
Elevation 2274 KB Formation Fort Scott	Effective Pay	
Date 11-17-13 Sec. 24 Twp. 18S	Range24WCounty	Ness State Kansas
Test Approved ByRobert A. (Bob) Schreiber	Diamond Representative	Tim Venters
Formation Test No. 1 Interval Tested from _	4,177 _{ft. to} 4	, ²²⁸ ft. Total Depth4,228 ft
Packer Depth	/4 in Packer Depth	ft. Sizein.
Packer Depthft. Size63	/4 in. Packer Depth	ft. Size in.
Depth of Selective Zone Set	_ft.	
	58 ft. Recorder Num	
Bottom Recorder Depth (Outside) 4,2	25 ft. Recorder Num	ber11030 Cap5,025 psi.
Below Straddle Recorder Depth	ft. Recorder Num	berpsi.
Drilling Contractor Southwind Drilling, Inc Rig 8	Drill Collar Length	<u>f</u> t l.Din.
Mud Type Chemical Viscosity 68	Weight Pipe Length	
Weight 9.4 Water Loss 8.8	cc. Drill Pipe Length	4,144 ft I.D. 3 1/2 in.
ChloridesP.P.M.	Test Tool Length	
Jars: MakeSterling Serial Number	2 Anchor Length 19' po	erf. w/32' drill pipe Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No	Surface Choke Size	1in. Bottom Choke Size5/8 in.
	Main Hole Size	7 7/8 in. Tool Joint Size 4 1/2-XH in.
Blow: 1st Open: Weak, surface blow increasing to 1/2 in. No blo	ow back during shut-in.	
2nd Open: Weak, surface blow throughout. No blow back	during shut-in.	
Recovered ⁵ ft. of ^{mud} = .071150 bbls.		
Recoveredft. of		
Recovered ft. of		
Recovered ft. of		

Recovered ft. of		
Remarks Tool Sample Grind Out: Spotty-oil; 100%-m	ud	-
Time Set Packer(s) 8:18 P.M. Time Started		Maximum Temperature108°
Initial Hydrostatic Pressure		
Initial Flow PeriodMinutes30		to (C)8P.S.I.
Initial Closed In PeriodMinutes30	(D)150 P.S.I.	
·-		
Final Flow PeriodMinutes 17		to (F)9P.S.I.
Final Flow Period	(G)P.S.I.	to (F)9P.S.I.

DIAMOND TESTING

General Information Report

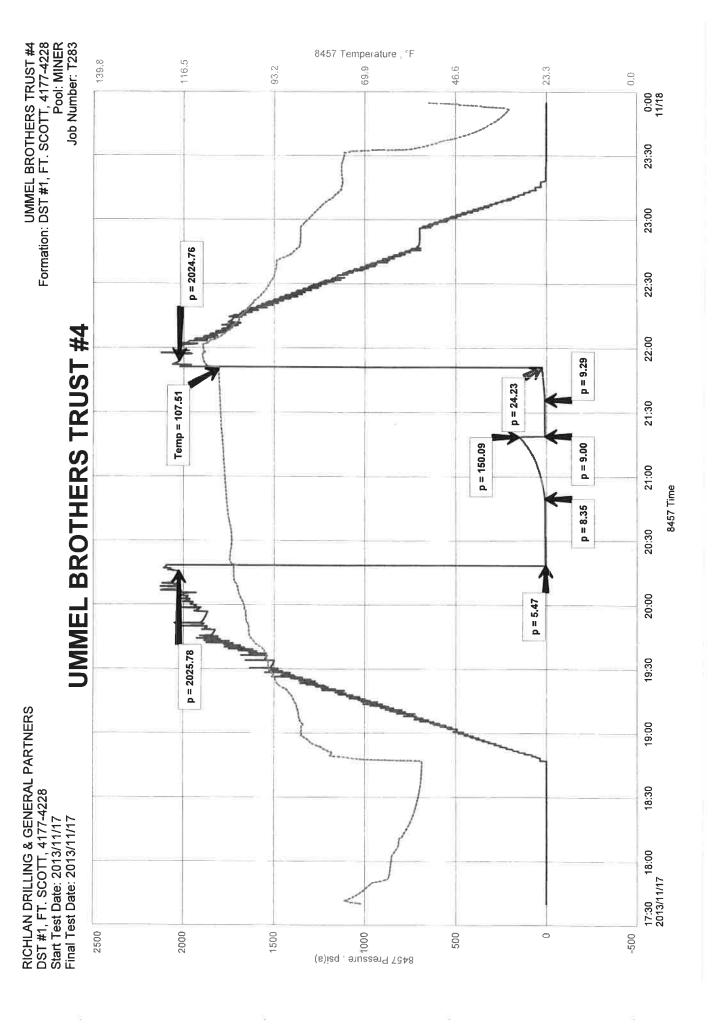
General Information

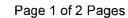
Contact Well Name Unique Well ID Surface Location	RICHLAN DRILLING & GENERAL PARTNERS RICK SCHREIBER UMMEL BROTHERS TRUST #4 DST #1, FT. SCOTT, 4177-4228 SEC 24-18S-24W, NESS CO. KS.	Representative Well Operator Report Date Prepared By	TIM VENTERS RICHLAN DRILLING & GENERAL PAR. 2013/11/18 TIM VENTERS
Field Well Type Test Type Formation Well Fluid Type	MINER Vertical CONVENTIONAL DST #1, FT. SCOTT, 4177-4228 01 Oil	Qualified By	BOB SCHREIBER
Start Test Date Final Test Date	2013/11/17 2013/11/17	Start Test Time Final Test Time	

Test Recovery:

RECOVERED: 5' MUD

TOOL SAMPLE: SPOTTY OIL, 100% MUD







DIAMOND TESTING, LLC

P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313 UMMELBROTHERSTRUST4DST2

Company Richlan Drilling	Lease & Well No. Ummel Broth	ners Trust No. 4
Elevation 2274 KB Formation Mississippi	Effective Pay	T004
Date 11-18-13 Sec. 24 Twp. 18S Range	24W County Ness	State Kansas
Bohot A (Boh) Cohroiber	amond Representative	Tim Venters
Formation Test No. 2 Interval Tested from 4	,249 _{ft.} to4,307 _{ft.}	Total Depth 4,307 ft
Packer Depth4,244 ft. Size6 3/4 in.	Packer Depth	
Packer Depthtt. Sizein. Packer Depthtt. Size6 3/4 in.	Packer Depth	
Depth of Selective Zone Setft.	i acker Deptil	it. Oizeiii,
Top Recorder Depth (Inside) 4,230 ft.	Recorder Number	8457 Cap. 10,000 psi.
Bottom Recorder Depth (Outside) 4,304 ft.	Recorder Number	11030 Cap. 5,025 psi.
Below Straddle Recorder Depthft.	Recorder Number	
Drilling Contractor Southwind Drilling, Inc Rig 8	Drill Collar Length	ft I.Din.
Mud Type Chemical Viscosity 56	Weight Pipe Length	ft I.Din.
Weight9.2 Water Loss9.6cc.	Drill Pipe Length	4,216 ft I.D. 3 1/2 in.
Chlorides 3,000 P.P.M.	Test Tool Length	33 ft Tool Size 3 1/2-IF in.
Jars: Make <u>Sterling</u> Serial Number 2	Anchor Length 26' perf. w/32'	drill pipe Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No	Surface Choke Size1in.	Bottom Choke Size 5/8 in.
	Main Hole Size 7 7/8 in.	Tool Joint Size 4 1/2-XH in.
Blow: 1st Open: Weak, 1/2 in. blow increasing. Off bottom of bucket in 24 min 2nd Open: Weak, 1/4 in. blow increasing to 11 ins. No blow back during		
Recovered30 ft. of mud = .426900 bbls.		
Recovered 125 ft. of slightly water cut mud = 1.778750 bbls. (Grind out	: 17%-water; 83%-mud)	
Recovered65 ft. of heavy water cut mud = .924950 bbls. (Grind out: 4	6%-water; 54%-mud)	
Recovered 65 ft. of mud cut water = .924950 bbls. (Grind out: 71%-wa	ater; 29%-mud) Chlorides: 19,000 Ppm	PH: 7.0
Recovered 285 ft. of TOTAL FLUID = 4.055550 bbls.		
Recovered ft. of		
Remarks_Tool Sample Grind Out: 1%-oil; 74%-water; 25%-mud		
Fime Set Packer(s) 5:43 P.M. Time Started off Bottom		ım Temperature116°
nitial Hydrostatic Pressure(A)	2026 _{P.S.I.}	
nitial Flow PeriodMinutes30(B)	19 P.S.I. to (C)_	79 _{P.S.I.}
nitial Closed In PeriodMinutes30(D)	874 P.S.I.	
Final Flow PeriodMinutes45(E)	87_P.S.I to (F)	138 _{P.S.I.}
Final Closed In PeriodMinutes30(G)	<u>671</u> P.S.I.	
Final Hydrostatic Pressure(H)	2025 P.S.I.	

DIAMOND **TESTING**

General Information Report

General Information

Company Name RICHLAN DRILLING & GENERAL PARTNERS **TIM VENTERS** Representative Contact **RICK SCHREIBER** Well Operator RICHLAN DRLG. & GENERAL PARTS. Well Name **UMMEL BROTHERS TRUST #4** 2013/11/18 Report Date Unique Well ID DST #2, MISSISSIPPIAN, 4249-4307 Prepared By **TIM VENTERS** Surface Location SEC 24-18S-24W, NESS CO. KS. **BOB SCHREIBER** Field MINER **Qualified By** Well Type Vertical CONVENTIONAL **Test Type** Formation **DST #2, MISSISSIPPIAN, 4249-4307** Well Fluid Type 01 Oil **Start Test Date** 2013/11/18 15:09:00 Start Test Time **Final Test Date** 2013/11/18 **Final Test Time** 23:04:00

Test Recovery:

RECOVERED: 30' MUD

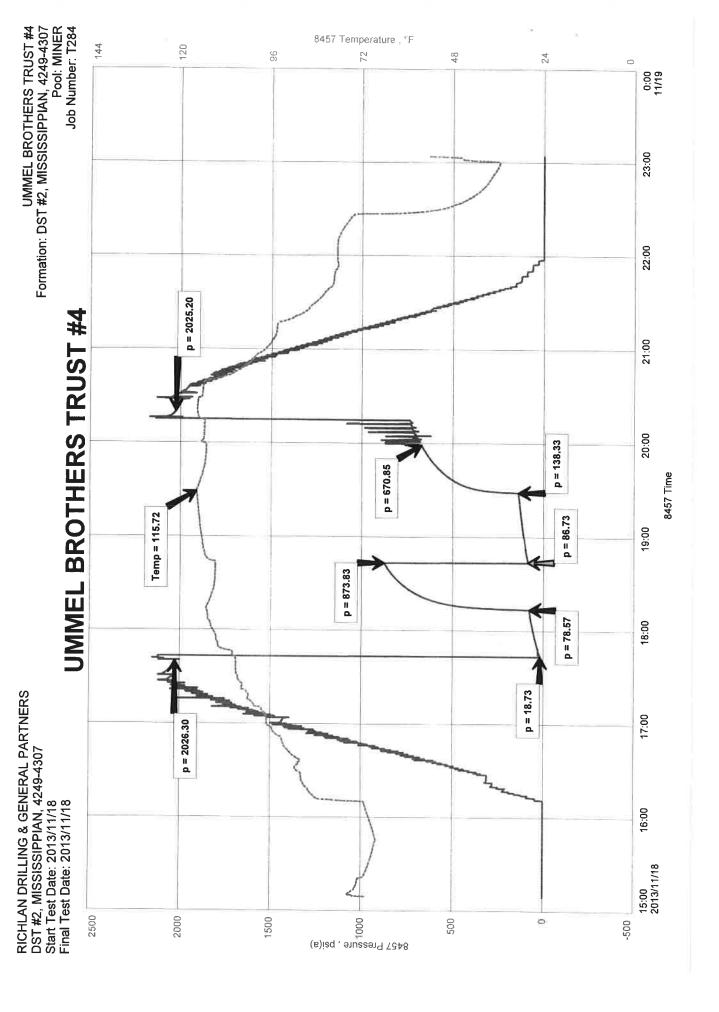
125' SWCM, 17% WATER, 83% MUD 65' HWCM, 46% WATER, 54% MUD 65' MCW, 71% WATER, 29% MUD

285' TOTAL FLUID

TOOL SAMPLE: 1% OIL, 74% WATER, 25% MUD

CHLORIDES: 19,000 ppm

PH: 7.0



SERVICES, 054739

Federal Tax i.D.# 20-597580

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665

SERVICE POINT:

PRINTED NAME	contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.	and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or	To: Allied Oil & Gas Services, LLC.	CITYSTATEZIP	CHARGE TO: RICHLAN DRILLING & General F	Compart of SHUT IN C	ROBIOUS CIRC SOT & CEMPS, T	# DRIVER	PUMPTRUCK CEMENTER CHANGE OF THE BULK TRUCK BULK TRUCK BULK TRUCK BULK TRUCK BULK TRUCK	EQUIPMENT	PERFS. DISPLACEMENT		OF JOB SIZE A M NG SIZE A M NG SIZE PIPE	CONTRACTOR So of 4 winds Date Rot 8	LEASE WELL# 4 LOCATION Vess C. T.	0
DISCOUNT IF PAID IN 30 DAY:	SALES TAX (If Any)	TOTAL		PLUG & FLOAT EQUIPMENT	POTAL TOTAL TOTAL	DEPTH OF JOB	SERVICE	HANDLING @@	1 1 1 1 1		CHLORIDE@	MON	AMOUNT ORDERED 160 SX COM	OWNER	W FDG COUNTY STATE	

SIGNATURE



CEMENTING LOG

STAGE NO.

Date 1 / 15	3 District	Gles B	Tick	Ticket No. 605	Sp	Spacer Type:
Lease Law	10/ 30	Thailt	Well No.	No.		
Location	1 Charl 6	121 14	2 AV Field		E .	LEAD: Pump Time hrs. Type Excess
CASING DATA:	Conductor Surface	Interme		Squeeze Misc Production Liner		Sks Yieldft ³) Pump Timehrs.
				E 4	Amt. WATE	
Casing Depths: Top			Bottom		B _L P _L	Pump Trucks Used
Drill Pipe: Size	whi	Weight	C.	Collars		
Open Hole: Size	RS:	T.D.	ft. P.B		tt. Fic	Float Equip: Manufacturer
Casing:	Bbls/Lin. ft.	1.240	Lin. ft./Bbl.	15,70		2
Open Holes: Drill Pipe:	Bbls/Lin. ft	10/47	Lin. ft./Bbl.	70.87	St	Stage Collars.
Annulus:	Bbls/Lin. ft		_ Lin. ft./Bbl		Di S	12 34
Hertorations: Fr	From_	1 6				MICH 1990
COMPANY REPRESENTATIVE	SENIALIVE					CCINEWICH
TIME	PRESSURES PSI	RES PSI	FLUI	FLUID PUMPED D	DATA	REMARKS
			+++			Had Solery medicing
						Rus Who Dill sine
						chord served the york
						1 1500 - 60 5Ks
						1. 50- 20 sks
						K KH- 20 5KS
						mossis and soil
						Air Box
	Y			ţ		
FINAL DISP, PRESS:	Sneat Bend, KS	PSI	BUMP PLUG TO	TO		PSI BLEEDBACKBBLS. THANK YOU

GAS SERVICES, 061058

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092

SERVICE POINT:

PRINTED NAME X MOTOR 1 10-11	To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.	CHARGE TO: Rehim Delling STREETSTATEZIP	July Down 5:15 %		# 344-70 DRIVER K	PUMPTRUCK CEMENTER DATE AND A SECOND HELPER BOTTON AND A SECOND HELPER BOTT	MAX LINE NT LEFT IN CSG. 19// RCEMENT (18/4 8 74)	TYPE OF JOB HOLE SIZE CASING SIZE TUBING SIZE DEPTH DRILL PIPE DEPTH DEPTH	DATE SEC. TWP. S RANGE LEASE WELL # L/ LOCATION LOCATION CONTRACTOR CONTRAC
DISCOUNT IF PAID IN 30 DAYS		PLUG & FLOAT EQUIPMENT	DEPTH OF JOB PUMP TRUCK CHARGE PUMP TRUCK CHARGE EXTRA FOOTAGE MILEAGE MANIFOLD @ @ @ @ @ @ MANIFOLD @ @ @ ### A state of the content of the c	SERVICE TOTAL		9 9 9 6 	COMMON@	CEMENT AMOUNT ORDERED 250 5K5 60% class	CALLED OUT ON LOCATION JOB START JOB FINISH COUNTY STATE

SIGNATURE

Inga K Kow