

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1045085

Form ACO-1 June 2009 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:		
Address 2:		Feet from North / South Line of Section
City: St	ate: Zip:+	Feet from East / West Line of Section
Contact Person:		Footages Calculated from Nearest Outside Section Corner:
Phone: ()		
CONTRACTOR: License #		County:
Name:		Lease Name: Well #:
Wellsite Geologist:		Field Name:
Purchaser:		Producing Formation:
Designate Type of Completion:		Elevation: Ground: Kelly Bushina:
	-Entry Workover	Total Depth: Plug Back Total Depth:
 Oil WSW Gas D&A OG CM (<i>Coal Bed Methane</i>) Cathodic Other (<i>Core</i>) 	SWD SIOW ENHR SIGW GSW Temp. Abd. e, Expl., etc.):	Amount of Surface Pipe Set and Cemented at: Fee Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Fee If Alternate II completion, cement circulated from: feet depth to: w/ sx cmt
If Workover/Re-entry: Old Well Int	fo as follows:	
Operator:		Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date:	Original Total Depth: Conv. to ENHR Conv. to SWD Conv. to GSW	Chloride content: ppm Fluid volume: bbls Dewatering method used:
Plug Back:	Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled	Permit #:	Operator Name:
Dual Completion	Permit #:	Lease Name: License #:
	Permit #:	Quarter Sec TwpS. R East Wes
	Permit #:	County: Permit #:
Spud Date or Date Rea Recompletion Date	ached TD Completion Date or Recompletion Date	

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							
Letter of Confidentiality Received							
Date:							
Geologist Report Received							
UIC Distribution							
ALT I II III Approved by: Date:							

	Side Two	1
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional Sh	eets)	Yes	No		Log Forn	nation (Top), Depth an	d Datum	Sample
Samples Sent to Geolog	gical Survey	Yes	No	Na	me		Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted I (If no, Submit Copy)	Electronically	☐ Yes ☐ Yes ☐ Yes	☐ No ☐ No ☐ No					
List All E. Logs Run:								
			CASING		New Used	1		
		Report a	Il strings set-c	conductor, surface, ir	itermediate, pro	oduction, etc.	-	1
Purpose of String	Size Hole Drilled	Size C Set (In	asing O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				1				1

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated					e		Acid, Fracture, Shot, Co (Amount and Kind	ement Squeeze Record d of Material Used)	Depth
TUBING RECORD:	Si	ze:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed F	Product	ion, SWD or ENHF	λ .	Producing N	/lethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITION OF GAS: METHOD OF CO			OF COMPLE	TION:		PRODUCTION INTER	RVAL:			
Vented Sold		Used on Lease		Open Hole	Perf.	Dually (Submit)	Comp. 4CO-5)	Commingled (Submit ACO-4)		
(If vented, Subi	Other (Specify)									

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	Squier 'A' 1-18
Doc ID	1045085

Tops

Name	Тор	Datum
Anhydrite	1796	+659
B/Anhydrite	1836	+623
Heebner Shale	3835	-1380
B/KC	4146	-1691
Marmaton	4196	-1741
Pawnee	4244	-1789
Ft. Scott	4338	-1883
Cherokee Shale	4356	-1901
Cherokee Cong	4424	-1969
Miss/Warsaw	4506	-2051



October 04, 2010

Mark Shreve Mull Drilling Company, Inc. 1700 N WATERFRONT PKWY BLDG 1200 WICHITA, KS 67206

Re: ACO1 API 15-135-25081-00-00 Squier 'A' 1-18 NE/4 Sec.18-16S-22W Ness County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Mark Shreve

QUALI	Federal	ELL CEMENTING, INC. Tax I.D.# 20-2886107
Phone 785-483-2025 Cell 785-324-1041	Home Office P.C	D. Box 32 Russell, KS 67665 No. 4111
· Sec.	Twp. Range	County State On Location Finish
Date 7-5-10 18	16 22 1	Vess Kansas Silipan
Lease Sparing A V	Vell No. /-18 La	ocation Brownell 21 11 = W Sinta
Contractor 4211 Dill	no Rich	Owner
Type Job Place	$p \rightarrow 0^{\prime\prime}$	To Quality Oilwell Cementing, Inc.
Hole Size 78	T.D. 4570	cementer and helper to assist owner or contractor to do work as listed.
Csq.	Depth	Charge Midl Deillion
Tbg. Size	Depth	Street
Tool	Depth	City State
Cement Left in Csg.	Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.
Meas Line	Displace	Cement Amount Ordered 280 60/40 286 and
EQUIP	MENT	The Fla Sead 1st
Pumptrk 9 No. Cementer	me St.	Common Common
Bulktrk & No. Driver	ile St	Poz. Mix /@/)
Bulktrk No. Driver	~ 52	Gel. Gel.
JOB SERVICES	& REMARKS	Calcium
Remarks:	· ·	Hulis
Rat Hole 305x		Salt
Mouse Hole		Flowseal 70#
Centralizers		Kol-Seal
Baskets		Mud CLR 48
D/V or Port Collar	•	CFL-117 or CD110 CAF 38
1 st Plus @ 1810	505	Sand
2 nd n n n n	80.su	Handling 289
3rd 11 11 660	SOS	Mileage
4th 1 250	.50sz	FLOAT EQUIPMENT
Sth 11 11 100	2051	Guide Shoe
Rat Hole	B	Centralizer
		Baskets
	And I down	AFU/Inserts
<u></u>		Float Shoe
	·	Latch Down
·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
44	<u> </u>	Pumptrk Charge Plug
A har		Mileage 22.
[Tax
		Discount
Ŝignature	· ·	Total Charge

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

Federal Tax I.D.# 20-2886107 Home Office P.O. Box 32 Russell, KS 67665

No. 4105

Phone 785-483-2025

Cell 785-324-1041										
· · ·	Sec.	Twp.	Range	(County	State	On Location	Finish		
Date 28-10	18	16	22	1	655	Rausas		5:15Pm		
Lease Squier A	<u>v v</u>	Vell No.	1-18	Locatio	on Braun	well ZCo	to Ray In	? きょう		
Contractor WW 7	Doill	ine	Rie 10	N 1	Owner					
Type Job Surfac	<u>م</u>	<u> </u>	<u> </u>	-	To Quality Oilwell Cementing, Inc. - You are hereby requested to rent cementing equipment and furnish					
Hole Size 124	-	T.D.	220		cementer and helper to assist owner or contractor to do work as listed.					
Csg. St Z	Depth	220		To Mull / billing						
Tbg. Size	•	Depth			Street			•		
Tool	·	Depth	······		City		State			
Cement Left in Csg. 10	-15	Shoe J	oint .		The above wa	as done to satisfaction	n and supervision of own	er agent or contractor.		
Meas Line		Displac	· 13786		Cement Am	ount Ordered	50 Com 32	2 Debut		
	EQUIP	IENT		•			•			
Pumptrk / No. Ceme Helpe	enter C	tare	ż4		Common /	50	·			
Bulktrk 2 No. Driver	r Ci	500	2/2		Poz. Mix					
Bulktrk No. Drive	r r		·		Gel. 3	}	·	·		
JOB SE	& REMA	RKS		Calcium		· · ·				
Remarks:			-	Hulls						
Rat Hole	• •		<u> </u>		Salt					
Mouse Hole	. '		·	·.	Flowseal					
Centralizers					Kol-Seal					
Baskets					Mud CLR 48					
D/V or Port Collar			•		CFL-117 or CD110 CAF 38					
				· · ·	Sand			· · ·		
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						FLOAT EQUI	PMENT			
		to na stal		۸.) 	Guide Shoe					
	.,				Centralizer		· · ·			
					Baskets	<u></u>				
	1			<u>.</u>	AFU Inserts	<u> </u>	<u>a a ana l</u>			
				<u> </u>	Float Shoe		<u> </u>			
				<u> </u>	Latch Down	· · · ·		\$\$		
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//////					Mileage 🦼	2				
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X Signature							Total Charg	le		

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DESCRIPT	stana Oci.i		Heren EL CL 2450	COUNTY NEWS 165 SEC 18 TWSP 165 LOCATION 1116, ENT E 123
	<u>1</u>		$\frac{1}{100} \frac{1}{100} \frac{1}$	EIELD Wildert LEASE Squick "A"
	∆_ [_/] Dolninita		LIME AND SAMPLE LOG	DEITEINC
MARKS		15.135-250 8	ENW GEOFOGIEL	DELLEOF B-B-B B-B-B
	hannarare merepanara araa			

	<u>8</u> 		Ś	
			$\frac{1}{1}$	
977 (C-104)				
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14.111-06.2,10	Alton, alesses	wh., starkm,		
State State	STA 60 STA 60 Smith 7% 2017	Samples: Samples: 3	Thus-co WT 8.6 4 MT 8.6 4	
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42 Ő 阳 -M 11:11)-<u>8h-lh</u>60 195 (-10) 186 3 -t#C SH ay the who ayon are SHI degybor - bik - gylon rent - man -nates I XIL, Some Which By to ح Elf dery roling on al val num file, som Kty, LIEy, variation of the second -94-20C= melly dis-Etx4, pXhil 12 At the onl-one ben tin brey ans - trad mothy-44--dky, treel-vergy, p, NS offic - white a from the so Autor alten, Pri -24-64dece -col VAK- Rok 94-ethi hokiy 2 um offich, Em, UL The HAN-94her e-orly, MJ adpin' 44.947 - ch-guistin Solling Solling 54 10 44 - MA - M/ 4 Wetly-alty , Asi may fm-drs, micure the Men other - chity for the Mith for Syn UNI-MECOMMIN 4/1.45 ant in the p, MS 10-6y -0.0 L D-1 LN-1-4 SING rat or L-arc \$1, NS micro-tely-da chtyaypt, micrust Hung dras, Min dry-tray were priveranter \$, NS tell m. shy dis 1 to microsting 1 dra, N.S. 5 1 6 300 B 14-1-624 Cold 00L-141 99 242 H treveloperational art. 35 KX/N





Diamond Testing

General information Report

General Information

Company Name MULL DRILLING COMPANY, INC.

Contact Well Name Unique Well ID Surface Location Well License Number Field Well Type	ERNIE MORRISON SQUIER 'A' #1-18 DST #1 FT SCOTT4,305' - 4,367' SEC 18-16S-22W NESS COUNTY, KS WILDCAT Vertical	Job Number Representative Well Operator Report Date Prepared By	ROGER D. FRIEDLY MULL DRILLING COMPANY, INC. 2010/07/03 ROGER D. FRIEDLY
Test Type Formation	CONVENTIONAL DST #1 FT SCOTT4,305' - 4,367'		
Well Fluid Type	01 Oil	Start Test Time	16:48:00
		Final Test Time	23:23:00
Start Test Date	2010/07/03		
Final Test Date	2010/07/03		

30046

Gauge Name Gauge Serial Number

Test Results

RECOVERED: 5' DM 100% MUD

TOOL SAMPLE: 100% DM

SQUIER 'A' #1-18 Formation: DST #1 FT SCOTT\CHEROKEE 4,305' - 4,367'







TaSt



DIAMOND TESTING P.O. Box 157 HOISINGTON, KANSAS 67544 (800) 542-7313

CLOCK ON:16:48

CLOCK OFF:23:23

DRILL-STEM TEST TICKET

	SQUIER 'A'	#1-18
WW RIG #10	Lease & Well No	
Contractor 2.455 KB E ET SCOTT / CHEPOKEE	_Charge to DITLELING	
Elevation 2,455 KB Formation Procent Cherokee	_Effective Pay	Ft. Ticket No
Date V.O.10 Sec. 10 Twp. 10 S Ran	ge W County NES	SS State KANSAS
Test Approved By PHIL ASKEY	Diamond Representative ROGE	ER D. FRIEDLY
Formation Test No. 1 Interval Tested from 4,305 ft	t. to 4,367 ft. Tota	l Depth_4,367ft.
Packer Depth 4,300 ft. Size 6 3/4 in.	Packer Depthft.	Size in.
Packer Depthft. Size63/4 in.	Packer Depthft.	Size in.
Depth of Selective Zone Set		
Top Recorder Depth (Inside) 4,308 ft.	Recorder Number 30046	Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4,364 ft.	Recorder Number 11073	Cap. 3,900 P.S.I.
Below Straddle Recorder Depthft.	Recorder Number	Cap. P.S.I.
Mud Type CHEMICAL Viscosity 53	Drill Collar Length 123 ft	ID 21/4 in
Weight 9.5 Water Loss 11.2 cc	Weight Pipe Length 0 ft	LD 27/8 in
Chlorides 4,400 P.P.M.	Drill Pipe Length 4,156 ft	LD 31/2 in
Jars: Make BOWEN Serial Number #2	Test Tool Length 26 ft	Tool Size 3 1/2-IF in
Did Well Flow? NO Reversed Out NO	Anchor Length 62 ft	Size 4 1/2-FH in
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in	32' DP IN ANCHOR Surface Choke Size 1 in	Bottom Choke Size 5/8 in
The lat Open WEAK 1/8" BLOW INCREASING TO 1/4"		(NObb)
Blow: Ist Open: NO BLOW		(NObb)
		()
Recovered 5ft. of DW 100% MOD		
Recoveredft. of		
Recoveredft. of		
Recoveredft. of		Price Job
Recoveredft. of		Other Charges
Remarks:		Insurance
A.M.	0:04 D M A.M.	Total
Time Set Packer(s) 6:59 P.M. P.M. Time Started Off B	ottom 9.04 P.M. P.M. Maxim	um Temperature110
Initial Hydrostatic Pressure	A) 2,153 P.S.I.	38
Initial Flow Period Minutes 5 (B)32 P.S.I. to (C)	P.S.I.
Initial Closed In Period Minutes 30 (D) <u>150 P.S.I.</u>	20
Final Flow Period Minutes 30 (E)70 P.S.I. to (F)	
Final Closed In Period Minutes 60 (G)P.S.I.	
Final Hydrostatic Pressure	H) 2,145 P.S.I.	

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

GENERAL INFORMATION

Client Infor	mation	<u>:</u>				
Company:	MULL DRILLING CO INC					
Contact:	ERNIE MORRISON					
Phone:		Fax:	e-mail:			
Site Informa	ation:					
Contact:	PHIL	ASKEY				
Phone:		Fax:	e-mail:			
Well Inform	ation:					
Name:	SQUIRES A 1-18					
Operator:	MULL	DRILLING CO INC				
Location-Do	wnhole:					
Location-Su	rface:	S18/16S/22W NESS CTY				
Test Inform	nation:					
Company:		DIAMOND TESTING				
Representa	tive:	JOHN RIEDL				
Supervisor:		PHIL ASKEY				
Test Type:		CONVENTIONAL		Job Number:	D775	
Test Unit:						
Start Date:		2010/07/04		Start Time:	14	4:00:00
End Date:		2010/04/07		End Time:	19	9:30:00
Report Date	e :	2010/07/04		Prepared By:	JOHN RIED	L
<u>Remarks:</u>				Qualified By:	PHIL ASKE	Y

RECOVERY: 60' DRILLING MUD



DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

DRILL-STEM TEST TICKET

Company	76.00		Lease & Well No					
Contractor			Charge to					
Elevation	Formation		Effective Pay	tive Pay		Ft. Ticket No		
Date SecTw	vpS Range	e	_W County	· · ·	State			
Test Approved By			Diamond Represent	ative	JOHN (C. RIEDL		
Formation Test No	Interval Tested from		ft. to	ft. T	otal Depth	ft.		
Packer Deptht	ft. Size in		Packer Depth		_ft. Size	in.		
Packer Depth	ft. Size in		Packer Depth		_ft. Size	in.		
Depth of Selective Zone Set								
Top Recorder Depth (Inside)		ft.	Recorder Number_		Cap	P.S.I.		
Bottom Recorder Depth (Outside)		ft.	Recorder Number_		_ Cap	P.S.I.		
Below Straddle Recorder Depth		ft.	Recorder Number_		Cap	P.S.I.		
Mud Type	Viscosity	·	Drill Collar Length	1	_ft. 1.D	2 1/4	in	
Weight Wa	ter Loss	cc.	Weight Pipe Length	ı	ft. I.D	2 7/8	_ in.	
Chlorides	P.P.M		Drill Pipe Length_		_ft. I.D	3 1/2	_ in.	
Jars: MakeBOWENSe	ria! Number		Test Tool Length_		_ft. Tool	Size3 1/2-IF	_in	
Did Well Flow?	Reversed Out		Anchor Length		_ft. Size_	4 1/2-FH	in	
Main Hole Size 7 7/8	Tool Joint Size 4 1.	/2in.	Surface Choke Size	<u> </u>	in. Botto	om Choke Size 5/8	in	
Blow: 1st Open:	••••							
2nd Open:								
Recoveredft. of								
Recoveredft. of								
Recoveredft. of			L					
Recoveredft. of		·			Price Job			
Recoveredft. of					Other Cha	arges		
Remarks:					Insurance			
·								
	A.M.		A	M.	Total			
Time Set Packer(s)	P.M. Time	Started Of	f Bottom	P.M. Ma	ximum Temp	erature		
Initial Hydrostatic Pressure	•••••		. (A)	P.S.I.				
Initial Flow Period	Minutes		(B)	P.S.I. to	(C)	P.S.I.		
Initial Closed In Period	Minutes		(D)	P.S.I.				
Final Flow Period	Minutes		(E)	P.S.I. to	(F)	P.S.I.		
Final Closed In Period	Minutes		(G)	P.S.I.				
Final Hydrostatic Pressure		. <u></u>	. (H)	P.S.1.	·			

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



30046 Time

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