

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1086002

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: Sta	ate: Zip:+	Feet from East / West Line of Section
		Footages Calculated from Nearest Outside Section Corner:
		County:
		Lease Name: Well #:
		Field Name:
-		
		Producing Formation:
Designate Type of Completion:		Elevation: Ground: Kelly Bushing:
New Well Re-I	Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW	SWD SIOW	Amount of Surface Pipe Set and Cemented at: Fee
Gas D&A	ENHR SIGW	Multiple Stage Cementing Collar Used? Yes No
OG	GSW Temp. Abd.	If yes, show depth set: Fee
CM (Coal Bed Methane)		If Alternate II completion, cement circulated from:
Cathodic Other (Core,	Expl., etc.):	feet depth to:w/sx cmi
If Workover/Re-entry: Old Well Info	o as follows:	
Operator:		
Well Name:		Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date:	Original Total Depth:	
Deepening Re-perf.	Conv. to ENHR Conv. to SWD	Chloride content: ppm Fluid volume: bbls
		Dewatering method used:
Plug Back:	Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled	Permit #:	
Dual Completion	Permit #:	Operator Name:
	Permit #:	Lease Name: License #:
	Permit #:	Quarter Sec TwpS. R East Wes
GSW	Permit #:	County: Permit #:
Spud Date or Date Read Recompletion Date	ched 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:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II Approved by: Date:

	Side Two	
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 She	eets)	Yes No	L	-	n (Top), Depth an	d Datum Top	Datum
Samples Sent to Geolog	jical Survey	Yes No	Null			iop	Datam
Cores Taken Electric Log Run Electric Log Submitted E (If no, Submit Copy)	Electronically	☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
		CASIN		ew Used			
		Report all strings se	t-conductor, surface, inte	ermediate, producti	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 / 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 Specify Fo		RD - Bridge F Each Interval		e			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		ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITIO	N OF (GAS:			METHOD	OF COMPLE	TION:		PRODUCTION INTER	RVAL:
Vented Sold		Used on Lease		Open Hole	Perf.	Dually (Submit)		Commingled (Submit ACO-4)		
(If vented, Sub	mit ACC)-18.)		Other (Specify))					

ALLIED CEMENTING CO., LLC. 042446

Federal Tax I.D.# 20-5975804

P.O. BOX 31 RUSSELL, KANSAS 67665

TO

SERVICE POINT: Gross F Bend, KS

DATE 3-4-12	SEC.	TWP. 305	RANGE 24W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE	WELL #	1-2	LOCATION B/D	om, FS 3/4 m	est 1/2	COUNTY A	STATE Houses
OLD OR (EW (Circle one)		Spart Lega	TINTO	1		

TIPE OF JUB MOTON	plug		
HOLE SIZE 1214	, T.D.	CEMENT	
CASING SIZE 85/6	DEPTH	AMOUNT ORDERED 170 5K5 60	7. ClossA
TUBING SIZE	DEPTH	40% 002 4th gel 1/4 6/2-	50.1
DRILL PIPE 41/2	DEPTH		<i>c</i>
TOOL	DEPTH		7
PRES. MAX	MINIMUM	COMMON 102 @ 16.25	1.657.
MEAS. LINE	SHOE JOINT	POZMIX 68 @ 8.50	578.00
CEMENT LEFT IN CSG.		GEL 6 @21.23	127.50
PERFS.		CHLORIDE	· · · · · · · · · · · · · · · · · · ·
DISPLACEMENT Fresh	nore	ASC@	
		λ.	410

EQUIPMENT

PUMPTRUCK	CEMENTER PUTTO C
# 224	HELPER These K
BULK TRUCK	
# 452-155	DRIVER Kerry R. / Jugrin
BULK TRUCK	
#	DRIVER

COMMON_	102		@	16.25	1.657.5
POZMIX _	68		@	8.50	578.00
GEL	6	5	@	21.25	127.50
CHLORIDE			@		
ASC			@		
4105	<u>sa</u>	42	@	2-70	113.20
		****	@		
			_@		
			@ @		
HANDLING	178			2.25	400.50
MILEAGE _	178×	50 %.11			979.00

REMARKS:

Fill Hole

14T 0/49	1560 -50545	
2NOplyg	500 - 50 485	
3rd plug	60 - 20555	
RH	- 30985	
MH	- 20 5/55	

CHARGE TO: Deutsch O: 1 Company STREET CITY _ STATE _ ZIP

SERVICE

DEPTH OF PUMP TRU	CK CHARGE		1	250.00	2
EXTRA FO	OTAGE		(a)		
MILEAGE	HVM	50	@	7.00	350.00
MANIFOLE)		@		
	hum	50	@	4,00	200.00
			@		

TOTAL 1800.00

PLUG & FLOAT EQUIPMENT

To Allied Cementing Co., 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.

2 PRINTED NAME Former SIGNATURE WAKYOU!

@ (a) a (a) @ TOTAL SALES TAX (If Any)_ 90 5.655. TOTAL CHARGES 8 31 1 DISCOUNT IF PAID IN 30 DAYS 72 15 2 4

ALLIED CEMENTING CO., LLC. 038039 ś

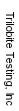
and the second se	Federal Tax I.D.	.# 20-5975804			
	REMIT TO P.O. BOX 31 RUSSELL, KANSÁS 67665		SERV	ICE POINT:	elucyets
	DATE 02-28-12 O2 305 24m	ALLED OUT	ON LOCATION	JOB START	JOB FINISH 4:45/m
1	LEASE Hertlein WELL # 1-2 LOCATION Bloom, L OLD OR NEW (Circle one)	() ³ /4 w, 19	Ls /w/ to	Clank	KS
	CONTRACTOR Mavenick #106	OWNER	Devtsch	Ś	
	TYPE OF JOB Sunface HOLE SIZE /2'4 T.D. 539 CASING SIZE 8% 24#DEPTH 534	CEMENT AMOUNT OR	DERED 375	x 60:40:	2%gel+3%
	TUBING SIZE DEPTH DRILL PIPE DEPTH	$cc + V_{4} #$	tloseal		
	DRILL PIPE DEPTH TOOL DEPTH				-1-125
	PRES. MAX 300 MINIMUM	COMMON	ssA 2251	<u>×@</u>	3656
	MEAS. LINE SHOE JOINT NA	POZMIX		×@	1275.00
	CEMENT LEFT IN CSG. 20'	GEL		<u>×@</u>	69840
	PERFS. DISPLACEMENT 32 74 136 /s Frush H 20	ASC	(_0\$<		
	EQUIPMENT		0.11	#@	258 00
	and a second	Flosen	94		2380
	PUMPTRUCK CEMENTER D Felia/Fred. Ubids	F		@	
	# 471-302 HELPER H. Piper			@	
	BULK TRUCK # 356-290 DRIVER G. Mclemone B. Goins			_@	
	# 206-290 DRIVER (S. MCLER (S. MCLER) C. DOINS BULK TRUCK		-	_@	
	# DRIVER	HANDLING	397		893.21
		MILEAGE 5	0 397 .11		2183.50
	REMARKS:			TOTA	L 9092. =
	Pipe on BHM, Breakline, Pump Spacer, Mix 37	15st	3		
	60:40: Coment Stop, Referselling Stant Disput	Y	SERV	ICE	
	Fresh HO Wash up on Plug, See incruse in Pht		524		
	Slow Rate, Stop Pump of 32/4 B615 total Dig	PUMP TRUC	OB <u>534</u>		1125.00
	Shutting Concert Did Ciac.	EXTRA FOO	TAGE 234	@ .95	- 230-85
		MILEAGE		@	35000
		MANIFOLD	head Renta	<u>[@</u>	
		Cig ht Ve	hide 50		200
				@	
	CHARGE TO: Deutsch	580 10		TOT	AL 1905.85
	STREET		· · · · ·	. 101/	NL 110/
	CITYSTATEZIP	v . ¹	PLUG & FLOA	TEOUIPM	ENT
			i bog a i boi		
		1-TWP		@	92.00
		1 - centre	firek	@	69.00
	To Allied Cementing Co., LLC.			@	
	You are hereby requested to rent cementing equipment	(martine		@	
ş-,	and furnion contenter and herper(c) to accure the				
	contractor to do work as is listed. The above work was	22 45 55 . 10		TOT	1 156.00
	done to satisfaction and supervision of owner agent or			101	14 <u>- 1 - e</u> 3
e	contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.	SALES TAX	(If Any)		 i
	IERNIS AND CONDITIONS listed on the reverse side.	TOTAL CH			
¢.	PRINTED NAME Cecil & FARMOR		1	IFI	PAID IN 30 DAYS
4	PRINTED NAME [200] MILMOR	Discoulu			
	SIGNATURE Con g. Farmer	B	d adj. price	- 84	123.64

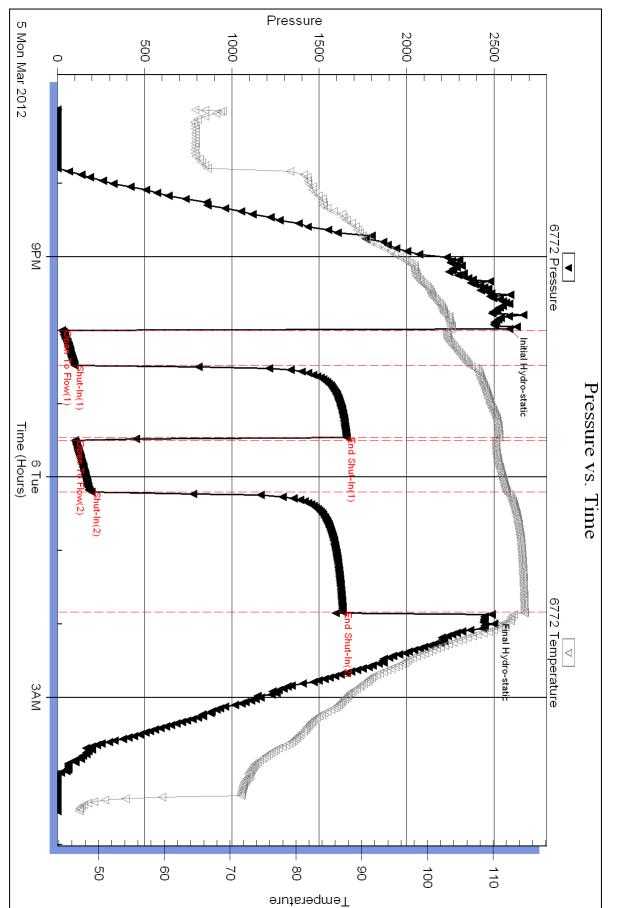
	DRILL STEM TE	ST REP	ORT					
RILOBITE	Deutsch Oil Co.		2/30/2	2/30/24				
ESTING , INC.	8100 E 22nd St. N. bldg 600 W	chita Ks.	Herte	in 1-2	2			
		Job Ticket: 41247 DST#:1						
	ATTN: Kent D		Test St	art: 20	012.03.05 @	19:00:00		
GENERAL INFORMATION:								
Formation:Mar/Fort Sc.Deviated:NoWhipstock:Time Tool Opened:22:00:00Time Test Ended:04:32:45	ft (KB)		Test Ty Tester: Unit No		Conventiona Harley David 58		e (Initial)	
nterval: 5150.00 ft (KB) To 522 Total Depth: 5223.00 ft (KB) (TV Hole Diameter: 7.88 inches Hole	D)		Refere		evations: to GR/CF:	2587.00 2576.00 11.00	ft (CF)	
Serial #: 6772								
Press@RunDepth: 195.54 psig	()		Capacity:			8000.00	psig	
Start Date: 2012.03.05 Start Time: 19:00:05	End Date: End Time:	2012.03.06 04:32:45	Last Calib.: Time On Btn Time Off Btr		2012.03.05 (2012.03.06 (
FSI- No blow bac Pressure vs. Ti					RE SUMM			
	0772 Temperature	Time (Min.) 0 2 30	(psig) (0 2588.78 1 26.71 1 98.40 1	Femp deg F) 03.65 03.19 06.30	Open To Fl Shut-In(1)	o-static ow (1)		
		89 Jemperature 134	102.00 1		End Shut-Ir Open To Fl Shut-In(2)			
		232 234	1635.13 1	14.75	End Shut-Ir	. ,		
or Mar 2012 gPM Time (Hous)	аю 							
Recovery			ļ ļ	Ga	s Rates			
Length (ft) Description Volume (bbl)			Choke (inches) Pressure (psig) Gas Rate (Mct/d)					
400.00 15% mud 85% w ater w ith	trace gas and (5.61							

() Th		DRI	LL ST	EM TEST REPO	RT		FLUID S	UMMAR
	RILOBITE	Deutsc	h Oil Co.		2/30/24			
	ESTING , INC.	8100 E	22nd St.	N. bldg 600 Wichita Ks.	Hertein	1-2		
					Job Ticket	: 41247	DST#: 1	
		ATTN:	Kent D		Test Start	: 2012.03.05 @	19:00:00	
Mud and Cu	ushion Information							
	el Chem			ushion Type:		Oil A PI:		deg API
Mud Weight:	9.00 lb/gal			ushion Length:	ft	Water Salinity	/:	ppm
Viscosity: Water Loss:	50.00 sec/qt 10.79 in³			ushion Volume: as Cushion Type:	bbl			
Resistivity:	ohm.m			as Cushion Pressure:	psig			
Salinity:	11800.00 ppm			as cushion ressure.	psig			
Filter Cake:	inches							
Recovery Ir	nformation		_	— · · ·				
	ſ <u></u>		F	Recovery Table		_		
	Lengt ft	in		Description	Volume bbl	•		
		400.00	15% mu	d 85%w ater w ith trace gas and	d oil 5.6	611		
	Total Length:	400	.00 ft	Total Volume: 5.611	bbl			
	Num Fluid Samp Laboratory Nam			Num Gas Bombs: 0 Laboratory Location:	Seria	l #:		
	Recovery Com							
		lionto.						

Printed: 2012.03.07 @ 11:25:26

Ref. No: 41247





Deutsch Oil Co.

Hertein 1-2

DST Test Number: 1

Serial #: 6772

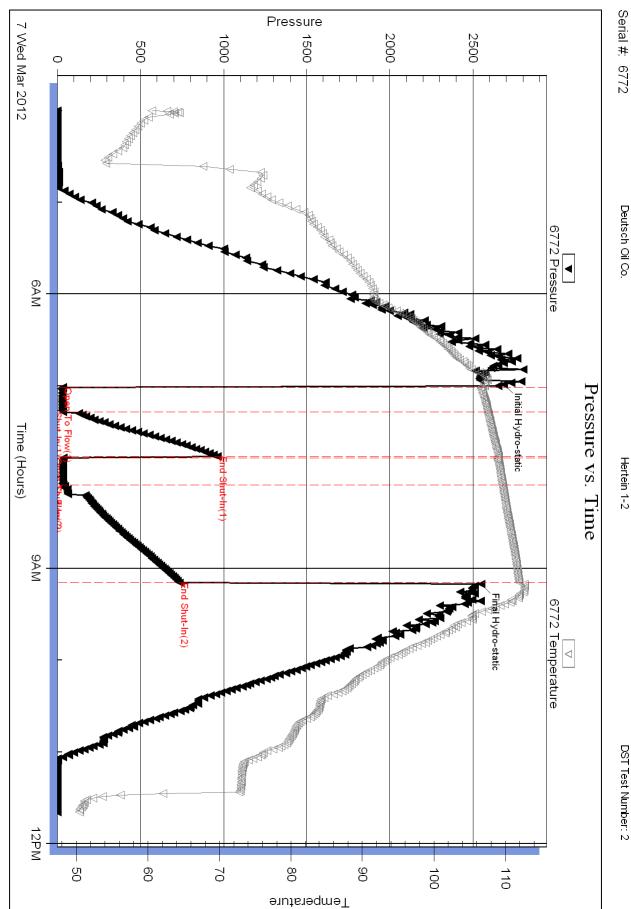
	DRILL STEM TEST REPORT							
RILOBITE	Deutsch Oil Co.		2/30/24	2/30/24				
ESTING , INC.	8100 E 22nd St. N. bldg 600 Wid	hita Ks.	Herteir	1-2				
			Job Ticke	DST#:2				
	ATTN: Kent D		Test Star	t: 2012.03.07 @	04:00:00			
GENERAL INFORMATION:								
Formation:MorrowDeviated:NoWhipstock:Time Tool Opened:07:01:15Time Test Ended:11:39:45	ft (KB)		Test Typ Tester: Unit No:	e: Conventional Harley Davids 58	l Bottom Hole (Initial) son			
Interval: 5335.00 ft (KB) To 54 Total Depth: 5410.00 ft (KB) (Tv 54 Hole Diameter: 7.88 inchesHole 54	(D)		Reference	e Elevations: KB to GR/CF:	2587.00 ft (KB) 2576.00 ft (CF) 11.00 ft			
				0 0				
Serial #: 6772 Press@RunDepth: 37.50 psig Start Date: 2012.03.07 Start Time: 04:00:05	@ ft (KB) End Date: End Time:	2012.03.07 11:39:44	Capacity: Last Calib.: Time On Btm: Time Off Btm:	2012.03.07 @				
TEST COMMENT: IF- Weak blow . ISI- No blow bac FF- No blow . FSI- No blow ba	k. ck.							
Pressure vs. Ti T 6772 Pressure	me T 6772 Temperature			SURE SUMMA				
	110 100 100 00	Time (Min.) 0 2 18 47	(psig) (de 2685.39 10 33.74 10 36.28 10 962.42 10	mp Annotation g F) 7.03 Initial Hydro 6.56 Open To Flo 7.54 Shut-In(1) 9.05 End Shut-In	p-static ow (1)			
		48 66 130 131	37.50 10 733.68 11	8.85 Open To Fid 9.60 Shut-In(2) 1.90 End Shut-In 2.63 Final Hydro	h(2)			
7 Wed Mar 2012 64M Time (Hours)	94M 12PM							
Recovery				Gas Rates				
Length (ft) Description 25.00 100% mud	Volume (bbl)		C	hoke (inches) Pressure	e (psig) Gas Rate (Mcf/d)			
23.00 100% mud	0.35							
Trilobite Testing, Inc	Ref. No: 41248		Drij	nted: 2012.03.07	@ 11.25.56			

	RILOBITE TESTING , INC.	DRILL STEM TEST REPORT						FLUID SUMMARY	
		Deutsch Oil Co.			2/30/24				
		8100 E	8100 E 22nd St. N. bldg 600 Wichita Ks.			Hertein 1-			
			Kent D			Job Ticket: 4	1248 2012.03.07 @ 0	DST#:2	
. ubedle.		ATTN.	Kent D				.012.03.07 @ 0	4.00.00	
Mud and Cushior				_					
Viscosity: 5 Water Loss: 9 Resistivity:	n 9.00 lb/gal 6.00 sec/qt 9.59 in ³ ohm.m 0.00 ppm		Cushio Cushio Gas Cu	n Type: n Length: n Volume: ushion Type: ushion Pressure:		ft bbl psig	Oil API: Water Salinity:		deg API ppm
Filter Cake:	inches								
Recovery Informa	ation								
	·			ery Table			-		
	Leng ft	th	Des	scription		Volume bbl			
		25.00	100% mud			0.35	1		
	Total Length: Num Fluid Samp			al Volume: n Gas Bombs:	0.351 bbl 0	Serial #			
	Laboratory Nan Recovery Com		Lab	oratory Location					

Printed: 2012.03.07 @ 11:25:57

Ref. No: 41248

Trilobite Testing, Inc



Deutsch Oil Co.

Hertein 1-2

DST Test Number: 2