

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION 1084178

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: State: Zip:+	Feet from East / West Line of Section
Contact Person:	
Phone: ()	
CONTRACTOR: License #	County:
Name:	
Wellsite Geologist:	
Purchaser:	-
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW 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:	Amount of Surface Pipe Set and Cemented at:
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 SWE	Chloride content: ppm Fluid volume: bbls
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	QuarterSec TwpS. R East 🗌 West
ENHR Permit #: GSW Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date 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 III Approved by: Date:

	Side Two	1084178
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	Nar	-	on (Top), Depth and	d Datum Top	Sample Datum
Samples Sent to Geolog	gical Survey	Yes	No	INdi	lie		юр	Datum
Cores Taken Electric Log Run Electric Log Submitted B (If no, Submit Copy)	Electronically	Yes	No No No					
List All E. Logs Run:								
			CASING R		lew Used			
		Report all st	rings set-co	nductor, surface, in	termediate, produc	tion, etc.		
Purpose of String	Size Hole Drilled	Size Casir Set (In O.I		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 For	RECOF	RD - Bridge P Each Interval	Plugs Set/Typ Perforated	e			ement Squeeze Record of Material Used)	Depth
TUBING RECORD:	Siz	e:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed	Producti	on, SWD or ENHF	ξ.	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
									1	
DISPOSITI	ON OF G	BAS:			METHOD	OF COMPLE	TION:		PRODUCTION IN	TERVAL:
Vented Solo		Jsed on Lease		Open Hole	Perf.	Uually (Submit)	Comp. ACO-5)	Commingled (Submit ACO-4)		
(If vented, Su	bmit ACO	-18.)		Other (Specify)						

	# 20-5975804
MIT TO P.O. BOX 31 RUSSELL, KANSAS 67665	SERVICE POINT:
TE 8 26201 SEC. TWP. RANGE CA	LLED OUT ON LOCATION JOB START JOB FINISH 4.00 Am 4.30 Am COUNTY STATE
SE RONALD WELL # 1-8 LOCATION Waterson	KS. LSX BW 34 GRAHAM RANSAS
NTRACTOR ADAYEAKK DRLG Rig #100	OWNER
PEOFJOB Coment SUBFace LESIZE 1214 TD. 345 SING SIZE 8 5/8 DEPTH 344	CEMENT AMOUNT ORDERED <u>200 sx Comm</u>
BHAG SIZE New 244 tosy DEPTH	3%cc
<u>ILL PIPE DEPTH</u> OL DEPTH	28 Get
ES. MAX MINIMUM	COMMON_ 200 @ 16, 25 3250, w
AS. LINE SHOE JOINT	POZMIX @ GEL 3 @ 21.25 63.25
RFS.	CHLORIDE @ 55/20 407.40
SPLACEMENT 20, 4- (3.13)	ASC@
EQUIMENT	
MP TRUCK CEMENTER Glenny	@
<u>417 HELPER WOODY</u>	@
378 DRIVER Roy	@ @
JLK TRUCK DRIVER	@
	$\begin{array}{c} \text{MILBAGE} \underline{} \\ \underline{} \\ \underline{} \\ \phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
REMARKS:	TOTAL 5-926.15
Rev 8 JTS OF New 24 # 878056, e+@34 Recieved Circulory on d	SERVICE
erment - wit 150 sy Com, 3+2 Belease	DEPTH OF JOB
NP 350#	PUMP TRUCK CHARGE 1/25-w
Cerment DiD Circe Ulate	EXTRA FOOTAGE @ MILEAGE /57 @ 77.03 1050.00
10 SUR SC AANKS	
	<u>2012 150 @ 4.0 600.00</u>
HARGE TO: CURGEREN OIL	· · · · · · · _ · _ · _ · _ · _ ·
	TOTAL <i>3 775,00</i>
TYSTATEZIP	PLUG & FLOAT EQUIPMENT
	astrony and a literation
	8-16400 Aug @6400
o Allied Cementing Co., LLC.	@
ou are hereby requested to rent cementing equipment	@ @
nd furnish cementer and helper(s) to assist owner or ontractor to do work as is listed. The above work was	
one to satisfaction and supervision of owner agent or	TOTAL 64,00
ontractor. I have read and understand the "GENERAL ERMS AND CONDITIONS" listed on the reverse side.	SALES TAX (If Any)
BUIND VIAD COMPLETIONS INCOMENDE LEVERS SUC.	TOTAL CHARGES 8765.15
RINTED NAME JEFEMY STUCKEY	SALES TAX (IF Any) TOTAL CHARGES 8765.15 DISCOUNT 53,5. IF PAID IN 30 DAYS
IGNATURE	
/ /	

ALLIED CEMENTING CO., LLC. 038256 Federal Tax I.D.# 20-5975804

Federal Tax I.	D.# 20-5975804	
REMIT TO P.O. BOX 31	SED	VICE POINT:
RUSSELL, KANSAS 67665	OLI	
		Kussell
DATE 9/4/11 SEC. TWP RANGE 24 C	ALLED OUT ON LOCATION	JOB START JOB FINISH
DATE 9/4/11 SEC. & TWP RANGE 24 C		7:00 A- 9:00 A
	ney N to Kalline &W	COUNTY
		Grahan KJ.
CONTRACTOR Maurick Phillin Rist 108	× OWNED	
	≻ OWNER	· · · · · · · · · · · · · · · · · · ·
TYPE OF JOB Production STATING		
HOLE SIZE T.D. JOGY	CEMENT	
CASING SIZE 51/2 12# DEPTH 40 89, 45	AMOUNT ORDERED /75	Con 103. Salt 22.6
TUBING SIZE DEPTH		₽/.
DRILL PIPE DEPTH	500 Gal WFI	le-2
-TOOL DV Toul DEPTH 2157'	• ·	
PRES. MAX MINIMUM	COMMON	@ 16.25 28 43.75
MEAS. LINE SHOE JOINT 42, 57	POZMIX	
CEMENT LEFT IN CSG. 42. 57	ĠĒL 3	@ 21.25 63,75-
PERFS.	CHLORIDE	@
DISPLACEMENT 96,31661	ASC	@
EQUIPMENT		_@ <u>/4.50</u> <u>652510</u>
	Flo Scal 112 2	@ 2. 3. 302, 40
PUMPTRUCK CEMENTER Shane, HPath		
# 409 HELPER TOUL	Self 15	@ 23.95 359,25
BULKTRUCK		@
# 341 DRIVER Tons	WFR-2 50.6.1	@ 1.10 550,00
BULK TRUCK		@
		@
#473 DRIVER Cody H.	HANDLING 643	@ 2.25 /446.75
	MILEAGE ///SK/mile	5304,75
REMARKS:		i de la composición d
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TOTAL 17395,6
Kat Hole 305ks Mouse Hole 15 st 2		
Invester 4046.88, Est Circulation	SERV	ICE ¹
Mixel Soo Gel Cutter Mixel 1755ks	and the second second second second second	· · · · · · · · · · · · · · · · · · ·
days 5/2 Shitdow Wester pump +	DEPTH OF JOB	
Civer, Displaced 36 661, The	PUMP TRUCK CHARGE	222514
Water 54 LII Mod 6131641 Water, Canden	EXTRA FOOTAGE	@
Aly CISOD psi Released Dured up.	MILEAGE So	@ 7102 1050,W
Opened OV tool @ 1000 psi Mixed		@
ski to Circulate Cement	MANIFOLD	
Closed OVTOO FOOPSi	by Prime 1	
CII II mil		
CHARGE TO: Culbreath Oil		:
STREET 1532 5 PEONIS AUF.		TOTAL 30250
STREET 7332 S PEOPLE AVE.		
CITY TUISA STATE OK ZIP 74120)	
	PLUG & FLOA	T EQUIPMENT
	. :	
	Below	
Inanks.	DMINY YOOT	@
I provide the K	24 Recip Screchers	@ 83.00 1992.a
To Allied Cementing Co., LLC.	R &- Centralizers,	@ 34.04 272.00
You are hereby requested to rent cementing equipment	AFU- Float Shoe	@
	1 1 h-	· · · ~

DST # 1



DRILL STEM TEST REPORT

Prepared For: Culbreath Oil & Gas Company

1532 S. Peoria Avenue Tulsa, OK 74120

ATTN: Pat Deenihan

8-9s-24w Graham,KS

Ronald #1-8

Start Date: 2011.08.30 @ 18:57:49 End Date: 2011.08.31 @ 02:20:04 Job Ticket #: 43571 DST#: 1

Trilobite Testing, Inc PO Box 1733 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

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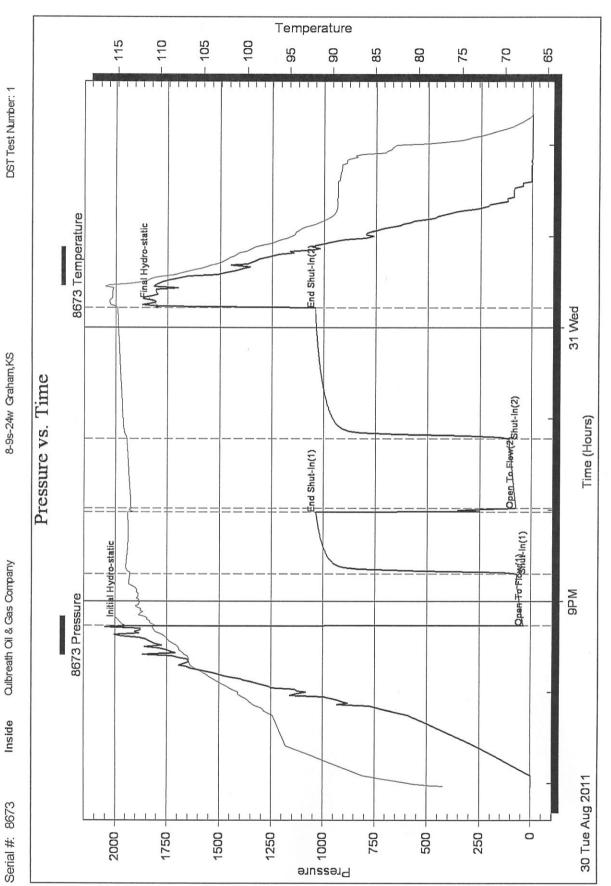
(OA	RILOBITE	DRILL STEM TE	ST REP	ORT			
	Contractive and a second second	Culbreath Oil & Gas Company		Ro	onald #1-8		
	ESTING , INC	1532 S. Peoria Avenue Tulsa, OK 74120			9s-24w Grahan		
					o Ticket: 43571	DST#:1	
"In the all t		ATTN: Pat Deenihan		Tes	st Start: 2011.08.3	30 @ 18:57:49	
GENERAL	INFORMATION:						
Formation:	B-D	in the second		1.12.5			
	No Whipstock: ened: 20:43:49 led: 02:20:04	ft (KB)		Tes	, ,	tional Bottom Hole IcLemore	
nterval:	3813.00 ft (KB) To 38	65.00 ft (KB) (TVD)		Ref	ference Elevations	: 2452.00 f	ft (KB)
Fotal Depth:	3865.00 ft (KB) (TV					2444.00 f	
-lole Diameter	: 7.88 inchesHole	Condition: Good		5	KB to GR/CF	F: 8.00 f	ft
Serial #: 8		1일 아님님께 가지?					
Press@RunDa Start Date:			0011 00 01	Capacity		8000.00	psig
Start Date: Start Time:	2011.08.30 18:57:51	End Date: End Time:	2011.08.31 02:20:04	Last Cal Time On		2011.08.31 .30 @ 20:43:34	
				Time Off		.31 @ 00:13:49	
TEST COM	MENT: IFP-Weak Blow, B	wilt to 3-1/4"					
201 001	ISI-Dead						
	FFP-Weak Blow , I FSI-Dead	Built to 3"					
	TOPDeau						
	Pressure vs. Ti			Р	RESSURE SUM		
2000 -	8673 Pressure	8673 Temperature	Time (Min.)	Pressure (psig)	Temp Anno (deg F)	tation	
1750	Wint	Wind invite the	0	1956.18	 March 2011 States and a state states 	lydro-static	
-		- 105	1	35.20		To Flow (1)	
1500 -		- 100	35	68.46 1034.41	113.47 Shut-In 113.76 End Sh	i(1) iut-ln(1)	
1250		- 05		80.45		To Flow (2)	
1000		1 w m ++ + + + + + + + + + + + + + + + +		110.40	113.87 Shut-In		
750			210	1040.32		ut-In(2)	
800		- 60	211	1799.41	115.26 Final H	ydro-static	
250		- 75					
	Dars - To Find With 10	- 70					
L	PPM	31 Wed					
Tue Aug 2011	Time (Hours)						
	Recovery				Gas Rates	3	
Length (ft)	Description	Volume (bbl)			Choke (inches) Pr	ressure (psig) Gas F	Rate (Mcf/d)
160.00	VSOCMW-1%O-49%W-5						
5.00	Free Oil	0.07	a faction for				
		100000	El Sterritzen				
			ANT NEGA				
		1 1					

				MTEST		-	TOOL DIAGR
Tre	STING , INC	Culbreath C	Dil & Gas (Company		Ronald #1-8	
		1532 S. Peo		ue		8-9s-24w Graha	m,KS
		Tulsa, OK	74120			Job Ticket: 43571	DST#:1
		ATTN: Pat	Deenihar	1		Test Start: 2011.08.	30 @ 18:57:49
Tool Information							
Drill Pipe: Length	n: 3802.00 ft Dia	ameter:	3.80 ind	ches Volume:	53.33 bb	ol Tool Weight:	2000.00 lb
leavy Wt. Pipe: Length	n: 0.00 ft Dia	ameter:	2.70 ind	ches Volume:	0.00 bb	Weight set on Pag	cker: 25000.00 lb
Drill Collar: Length	n: 0.00 ft Dia	ameter:	_	ches Volume:	0.00 bk	Weight to Pull Loc	se: 65000.00 lb
Drill Pipe Above KB:	17.00 ft			Total Volume:	53.33 bb		0.00 ft
Depth to Top Packer:	3813.00 ft					String Weight: Init	
Depth to Bottom Packer:	ft					Fir	al 61000.00 lb
nterval between Packers							
Fool Length:	80.00 ft						
Number of Packers:	2 Dia	ameter:	6.75 inc	hes			
ool Comments:							
Fool Description	Lenat	h (ft) Sei	rial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub		.00		- conton	3786.00	Acourn Longuis	
Shut In Tool	5	.00			3791.00		
hydraulic tool	5	.00			3796.00		
ars	5	.00			3801.00		
Safety Joint		.00			3803.00		
Packer		.00			3808.00	28.00	Bottom Of Top Packe
acker		.00			3813.00	20.00	Bettern en rep rueiter
Stubb		.00			3814.00		
Perforations		.00			3816.00		
hange Over Sub		.00			3817.00		
	31.				3848.00		
slank Spacing							
	1	()()			3849 00		
hange Over Sub	1.		8673	Incide	3849.00		
hange Over Sub ecorder	0.	.00	8673	Inside	3849.00		
Blank Spacing Change Over Sub Recorder Recorder Perforations	0. 0.	00 00	8673 6755	Inside Outside	3849.00 3849.00		
Change Over Sub Recorder Recorder Perforations	0. 0. 13.	00 00 00			3849.00 3849.00 3862.00	50.00	Datters Deckers 9 Arch
Change Over Sub Recorder Recorder Perforations Bullnose	0. 0. 13. 3.	00 00 00 00			3849.00 3849.00	52.00	Bottom Packers & Anchor
Change Over Sub Recorder Recorder Perforations Bullnose	0. 0. 13. 3.	00 00 00			3849.00 3849.00 3862.00	52.00	Bottom Packers & Anchor
hange Over Sub lecorder lecorder erforations ullnose	0. 0. 13. 3.	00 00 00 00			3849.00 3849.00 3862.00	52.00	Bottom Packers & Anchor
hange Over Sub ecorder ecorder erforations ullnose	0. 0. 13. 3.	00 00 00 00			3849.00 3849.00 3862.00	52.00	Bottom Packers & Anchor
Change Over Sub Recorder Recorder Reforations Rullnose	0. 0. 13. 3.	00 00 00 00			3849.00 3849.00 3862.00	52.00	Bottom Packers & Anchor

	DRI	LL STE	EM TEST F	EPORT	Г		FLUID SUMMAR
RILOBITE	Culbrea	ath Oil & Gas	Company		Ronald #	1-8	
ESTING , INC	1532 S	. Peoria Ave	nue	3.0	8-9s-24w	Graham,KS	
		OK 74120			Job Ticket: 4	8	DST#:1
	ATTN:	Pat Deeniha	an		Test Start: 2	2011.08.30@1	8:57:49
······································							
lud and Cushion Information							
lud Type: Gel Chem lud Weight: 9.00 lb/gal			nion Type:		£4	Oil API:	deg API
iscosity: 67.00 sec/qt			nion Length: nion Volume:		ft bbl	Water Salinity:	49000 ppm
Ater Loss: 6.78 in ³			Cushion Type:		551		
esistivity: ohmm			Cushion Pressure:		psig		
alinity: 1100.00 ppm							
ilter Cake: inches							
ecovery Information		Poo	over Table				
Lengt	th		overy Table		Volume	т	
ft					bbl		
	160.00 5.00	VSOCMW-1 Free Oil	%O-49%W-50%M		2.24	+	
Total Lanathi	1.11	9. I.S.			0.070	1	
Total Length:			otal Volume:	2.314 bbl			
Num Fluid Samp Laboratory Nam			lum Gas Bombs:	0	Serial #	:	
Recovery Com		L	aboratory Location				

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43571 Ref. No:

DST # 2



DRILL STEM TEST REPORT

Prepared For: Culbreath Oil & Gas Company

1532 S. Peoria Avenue Tulsa, OK 74120

ATTN: Pat Deenihan

8-9s-24w Graham,KS

Ronald #1-8

Start Date: 2011.08.31 @ 17:50:46 End Date: 2011.09.01 @ 02:56:01 Job Ticket #: 43572 DST#: 2

Trilobite Testing, Inc PO Box 1733 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

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RILOBITE ESTING, INC RILOBITE ESTING, INC RESTING, INC SENERAL INFORMATION: Formation: H Deviated: No Vhipstock: Time Tool Opened: 21:11:01 Time Test Ended: 02:56:01 Interval: 3897.00 ft (KB) To 395 Total Depth: 3950.00 ft (KB) (TV Hole Diameter: 7.88 inchesHole Start Date: 2011.08.31 Start Time: 17:50:48 TEST COMMENT: IFP-Weak Blow, Buk	D) Condition: Good 2 3934.00 ft (KB) End Date: End Time:	2011.09.01 02:56:01	Ronald #1-8 8-9s-24w Graham,KS Job Ticket: 43572 DST#: 2 Test Start: 2011.08.31 @ 17:50:46 Test Start: 2011.08.31 @ 17:50:46 Test Start: 2011.08.31 @ 17:50:46 Test Type: Conventional Bottom Hole Test Type: Conventional Bottom Hole Tester: Jason McLemore Unit No: 54 Reference Elevations: 2452.00 ft (KE 2444.00 ft (CF KB to GR/CF: 8.00 ft Capacity: 8000.00 psig Last Calib.: 2011.09.01 Time On Btm: 2011.08.31 @ 21:10:46 Time Off Btm: 2011.09.01 @ 00:44:31
GENERAL INFORMATION: Formation: H Deviated: No Whipstock: Time Tool Opened: 21:11:01 Time Test Ended: 02:56:01 nterval: 3897.00 ft (KB) To 395 Total Depth: 3950.00 ft (KB) (TV Hole Diameter: 7.88 inchesHole Serial #: 8673 Inside Press@RunDepth: 43.33 psig (# Start Date: 2011.08.31 Start Time: 17:50:48	Tulsa, OK 74120 ATTN: Pat Deenihan ft (KB) 50.00 ft (KB) (TVD) D) Condition: Good 2 3934.00 ft (KB) End Date: End Time:		Job Ticket: 43572 DST#:2 Test Start: 2011.08.31 @ 17:50:46 Test Type: Conventional Bottom Hole Tester: Jason McLemore Unit No: 54 Reference Elevations: 2452.00 ft (KE 2444.00 ft (CF KB to GR/CF: 8.00 ft Capacity: 8000.00 psig Last Calib.: 2011.09.01 Time On Btm 2011.08.31 @ 21:10:46
Formation: H Deviated: No Whipstock: Time Tool Opened: 21:11:01 Time Test Ended: 02:56:01 nterval: 3897.00 ft (KB) To 395 Total Depth: 3950.00 ft (KB) (TV Hole Diameter: 7.88 inchesHole Serial #: 8673 Inside Press@RunDepth: 43.33 psig (@ Start Date: 2011.08.31 Start Time: 17:50:48	ft (KB) 50.00 ft (KB) (TVD) D) Condition: Good 2 3934.00 ft (KB) End Date: End Time:		Test Start: 2011.08.31 @ 17:50:46 Test Type: Conventional Bottom Hole Tester: Jason McLemore Unit No: 54 Reference Elevations: 2452.00 ft (KE 2444.00 ft (CF KB to GR/CF: 8.00 ft Capacity: 8000.00 psig Last Calib.: 2011.09.01 Time On Btm 2011.08.31 @ 21:10:46
Formation: H Deviated: No Whipstock: Time Tool Opened: 21:11:01 Time Test Ended: 02:56:01 nterval: 3897.00 ft (KB) To 395 Total Depth: 3950.00 ft (KB) (TV Hole Diameter: 7.88 inchesHole Serial #: 8673 Inside Press@RunDepth: 43.33 psig (@ Start Date: 2011.08.31 Start Time: 17:50:48	50.00 ft (KB) (TVD) D) Condition: Good 2 3934.00 ft (KB) End Date: End Time:		Tester:Jason McLemoreUnit No:54Reference Elevations:2452.00ft (KE2444.00ft (CFKB to GR/CF:8.00ftCapacity:8000.00psigLast Calib.:2011.09.01Time On Btm2011.08.31 @ 21:10:4621:10:46
Time Test Ended: 02:56:01 nterval: 3897.00 ft (KB) To 395 Fotal Depth: 3950.00 ft (KB) (TV Hole Diameter: 7.88 inchesHole Hole Diameter: 7.88 inchesHole Total Bepth: 7.88 inchesHole Serial #: 8673 Inside Press@RunDepth: 43.33 psig (C) Start Date: Start Time: 17:50:48	D) Condition: Good 2 3934.00 ft (KB) End Date: End Time:		Unit No: 54 Reference Elevations: 2452.00 ft (KE 2444.00 ft (CF KB to GR/CF: 8.00 ft Capacity: 8000.00 psig Last Calib.: 2011.09.01 Time On Btm 2011.08.31 @ 21:10:46
Fotal Depth: 3950.00 ft (KB) (TV Hole Diameter: 7.88 inchesHole Serial #: 8673 Inside Press@RunDepth: 43.33 psig @ Start Date: 2011.08.31 Start Time: 17:50:48 TEST COMMENT: IFP-Weak Blow , Bu	D) Condition: Good 2 3934.00 ft (KB) End Date: End Time:		2444.00 ft (CF KB to GR/CF: 8.00 ft Capacity: 8000.00 psig Last Calib.: 2011.09.01 7 Time On Btm 2011.08.31 @ 21:10:46 21:10:46
Press@RunDepth: 43.33 psig @ Start Date: 2011.08.31 Start Time: 17:50:48	End Date: End Time:		Last Calib.: 2011.09.01 Time On Btm: 2011.08.31 @ 21:10:46
FFP-Weak, Built to	1-1/4"		
FSI-Dead Pressure vs. Tin	ne	N	PRESSURE SUMMARY
0073 Presure 0073 Presure 1750 17		(Min.) 0 1 30 82 82 115 214	Pressure (psig) Temp (deg F) Annotation 1985.56 112.05 Initial Hydro-static 35.17 110.77 Open To Flow (1) 39.52 111.63 Shut-In(1) 1005.28 113.05 End Shut-In(1) 74.98 112.64 Open To Flow (2) 43.33 113.47 Shut-In(2) 972.78 115.64 End Shut-In(2) 1969.91 115.97 Final Hydro-static
Recovery			Gas Rates
Length (ft) Description	Volume (bbl)		Choke (inches) Pressure (psig) Gas Rate (M
45.00 VSOOW-2%O-98%M	0.63	1 andoldf 6 cm (408) 6 m -ch 6 -86	

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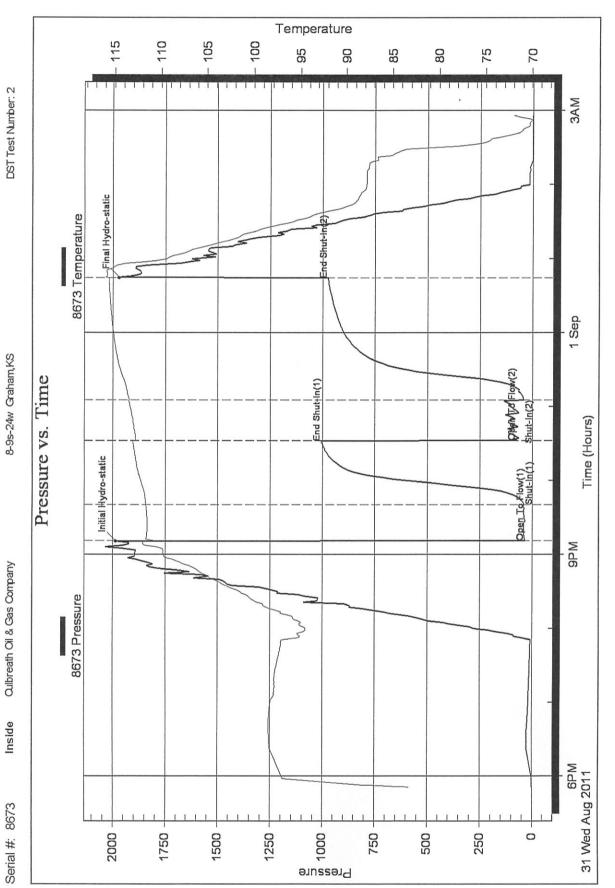
Ronald #1-8 8-9s-24w Graham,KS Job Ticket: 43572 DST#:2 Test Start: 2011.08.31 @ 17:50:46 Tool Weight: 2000.00 lb me: 54.66 bbl Tool Weight: 2000.00 lb me: 0.00 bbl Weight set on Packer: 25000.00 lb me: 0.00 bbl Weight to Pull Loose: 60000.00 lb me: 54.66 bbl Tool Chased 0.00 ft Tool Chased 0.00 ft String Weight: Initial 57000.00 lb Final 57000.00 lb String Weight: Initial 57000.00 lb String Weight: Initial 57000.00 lb String Weight: Initial 57000.00 lb String Str
Job Ticket: 43572 DST#:2 Test Start: 2011.08.31 @ 17:50:46 me: 54.66 bbl Tool Weight: 2000.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 60000.00 lb Tool Chased 0.00 ft String Weight: Initial 57000.00 lb Final Pepth (ft) Accum. Lengths 3875.00 3880.00
Test Start: 2011.08.31 @ 17:50:46 me: 54.66 bbl Tool Weight: 2000.00 lb me: 0.00 bbl Weight set on Packer: 25000.00 lb me: 0.00 bbl Weight to Pull Loose: 60000.00 lb me: 54.66 bbl Tool Chased 0.00 ft String Weight: Initial 57000.00 lb Final 57000.00 lb Bepth (ft) Accum. Lengths 3875.00 3880.00
ne: 54.66 bbl Tool Weight: 2000.00 lb ne: 0.00 bbl Weight set on Packer: 25000.00 lb ne: 0.00 bbl Weight to Pull Loose: 60000.00 lb ne: 54.66 bbl Tool Chased 0.00 ft String Weight: Initial 57000.00 lb Final 57000.00 lb Bepth (ft) Accum. Lengths 3875.00 3880.00
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String Weight: Initial 57000.00 lb Final 57000.00 lb Bepth (ft) Accum. Lengths 3875.00 3880.00
Final 57000.00 lb Depth (ft) Accum. Lengths 3875.00 3880.00
Depth (ft) Accum. Lengths 3875.00 3880.00
3875.00 3880.00
3885.00
3887.00
3892.00 23.00 Bottom Of Top Pac
3897.00
3898.00
3901.00 3902.00
3933.00
3934.00
3934.00
3934.00
3947.00
3950.00 53.00 Bottom Packers & Ancl

	DRI	LL STEM TEST R	EPOR	Г	F	LUID SI	JMMARY
RILOBITE	Culbrea	ath Oil & Gas Company		Ronald #1-	8		
ESTING, INC	1532 S	. Peoria Avenue		8-9s-24w G	raham KS		
		OK 74120		Job Ticket: 43		DST#:2	
建制		Pat Deenihan) 11.08.31 @ 17		
uhadl.	Anne				11.00.01 @ 17	.50.40	
Mud and Cushion Information							
Mud Type: Gel Chem		Cushion Type:			Dil API:		deg API
Mud Weight: 9.00 lb/gal Viscosity: 67.00 sec/qt		Cushion Length: Cushion Volume:		ft \ bbl	Nater Salinity:		ppm
Water Loss: 6.78 in ³		Gas Cushion Type:		551			
Resistivity: ohmm		Gas Cushion Pressure:		psig			
Salinity: 1100.00 ppm Filter Cake: inches							
Recovery Information							
		Recovery Table					
Leng	th	Description		Volume bbl			
	45.00	VSOCM-2%0-98%M		0.631			
Total Length:	45.	00 ft Total Volume:	0.631 bbl	ul ser			
Num Fluid Sam Laboratory Nan Recovery Com	ne:	Num Gas Bombs: Laboratory Location:	0	Serial #:			

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Printed: 2011.09.08 @ 13:24:06 Page 5

43572 Ref. No:

DST # 3



DRILL STEM TEST REPORT

Prepared For: Culbreath Oil & Gas Company

1532 S. Peoria Avenue Tulsa, OK 74120

ATTN: Pat Deenihan

8-9s-24w Graham,KS

Ronald #1-8

Start Date: 2011.09.01 @ 12:04:23 2011.09.01 @ 19:39:38 End Date: Job Ticket #: 43573 DST#: 3

Trilobite Testing, Inc PO Box 1733 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

Printed: 2011.09.08 @ 13:24:32 Page 1

	DRILL STEM TES	ST REP	ORT				
RILOBITE -	Culbreath Oil & Gas Company		Ro	onald #1-	-8		
ESTING , INC	1532 S. Peoria Avenue Tulsa, OK 74120		8-9s-24w Graham,KS Job Ticket: 43573 DST#: 3				
	ATTN: Pat Deenihan			st Start: 20			3 7#: 3 23
GENERAL INFORMATION: Formation: I-J Deviated: No Whipstock: Time Tool Opened: 13:44:38 Time Test Ended: 19:39:38 Interval: 3948.00 ft (KB) To 397 Total Depth: 3978.00 ft (KB) (TVI Hole Diameter: 7.88 inchesHole Serial #: 8673 Inside Press@RunDepth: 24.57 psig @ Start Date: 2011.09.01 Start Time: 12:04:25 TEST COMMENT: IFP-Weak Blow, Bu ISI-Dead FFP-Weak Blow St FSI-Dead	D) Condition: Good 3952.00 ft (KB) End Date: End Time:	2011.09.01 19:39:38	Tes Uni	ster: 5 erence Ee KB to : b.: Btm 2	Jason Mc 54 evations: o GR/CF: 2011.09.0	245. 244	2.00 ft (KB) 4.00 ft (CF) 3.00 ft 0.00 psig 9.01 4:08
Presure vs. Tim	Det 0073 Temperature	Time (Min.) 0 1 31 76 77 143 232 234	Pressure (psig) 2021.81 16.72 17.62 1148.49 28.06 24.57 1255.80 1954.67	106.88 108.92 110.35 109.84 111.81 113.28	Annota	ttion Flow (1) 1) t-ln(1) Flow (2) 2) t-ln(2)	
Recovery					Rates		·
Length (ft) Description 20.00 MCO-45%O-55%M	Volume (bbl)			Choke (in	ches) Pres	sure (psig)	Gas Rate (Mcf/d)
20.00 MCO-45%O-55%M 5.00 Free Oil	0.28						42514
	0.07	6 69(D) - 1					
0.00 120' Gas In Pipe	0.00	ER I					
		1779-1749-1 1					

Printed: 2011.09.08 @ 13:24:33 Page 2

Lesting Liss, OK 74120 8-9s-24w Graham,KS ATTN: Pat Deenihan Job Ticket: 43673 DST#: 3 Tool Information Till Ppe: Length: 3329.00 ft Diameter: 3.80 inches Volume: 55.11 bbl Tool Weight: 2000.00 ib Dill Ppe: Length: 0.00 ft Diameter: 2.25 inches Volume: 0.00 bbl Weight sto Piakcer: 2000.00 ib Drill Ppe Above KB: 4.00 ft Diameter: 2.25 inches Volume: 55.11 bbl Weight to Pial Loose: 60000.00 ib Drill Ppe Above KB: 4.00 ft Diameter: 2.25 inches Volume: 55.11 bbl Tool Chased 0.00 ft Diameter: 2.25 inches Volume: 55.11 bbl Tool Chased 0.00 ft String Weight: Initial 58000.00 ib Drill Ppe Above KB: 4.00 ft Total Volume: 55.11 bbl Tool Chased 0.00 ft Diameter: 3.00 ft Total Volume: 55.11 bbl Final 59000.00 ib Final 59000.00 ib Number of Packers: 2 Diameter: 6.75 inches 3931.00 Stoppe Packer: Stop		DBITE	Culbrea	ath Oil & Gas	Company		Ronald #1-8	
Tuisa, OK 74120 Job Ticket: 43573 DST#: 3 ATTN: Pat Deenihan Test Start: 2011.09.01 @ 12:04:23 Tool Information Diff Pie: Length: 3929.00 ft Diameter: 3.80 inches Volume: 55.11 bbl Tool Weight: 2000.00 lb Prill Pipe: Length: 0.00 ft Diameter: 2.25 inches Volume: 0.00 bbl Weight set on Packer: 25000.00 lb Dill Pipe Above KB: 4.00 ft Diameter: 2.25 inches Volume: 0.00 bbl Weight to Pul Loose: 6000.00 lb Dill Pipe Above KB: 4.00 ft Diameter: 55.11 bbl Tool Chased 0.00 0 lb Coll Length: 53.00 ft Total Volume: 55.11 bbl String Weight: Initial 58000.00 lb Tool Length: 53.00 ft Total Volume: 55.11 bbl Tool Chased 0.00 0 lb Tool Length: 53.00 ft Total Volume: 3928.00 String Weight: Initial 58000.00 lb Tool Comments: 1.00 3928.00 3938.00 3938.00 Stubb 1.00 3938.00 3938.00 39348.00	E F	STING INC			0. XO			1/2
ATTN: Pat Deenihan Test Start: 2011 R04:: 4.537.3 LS1 R-3 Tool Information ATTN: Pat Deenihan Test Start: 2011.09.01 @ 12.04:23 Doll Information Dill Rpe: Length: 0.00 ft Diameter: 3.60 inches Volume: 0.00 bbl Weight: 2000.00 lb Dill Rpe: Length: 0.00 ft Diameter: 2.70 inches Volume: 0.00 bbl Weight set on Packer: 2500.00 lb Dill Rpe Above KB: 4.00 ft Total Volume: 0.00 bbl Weight: Packer: 6000.00 lb Dill Rpe Above KB: 4.00 ft Total Volume: 0.00 bbl Total Volume: 0.00 ft Dill Rpe Above KB: 4.00 ft Total Volume: 55.11 bbl Tool Chased 0.00 ft Dill Rpe Above KB: 4.00 ft Total Volume: 675 inches Total Volume: 55.11 bbl Tool Chased 0.00 ft Diameter: 53.00 ft Total Volume: 6.75 inches 3933.00 String Weight: String Segue Tool Description Length (ft) Serial No.<			1002 0		ue			
Tool Information Tool Information Drill Pipe: Length: 3929.00 ft Diameter: 3.80 inches Volume: 55.11 bbl Tool Weight: 2000.00 lb Heavy WL Fipe: Length: 0.00 ft Diameter: 2.70 inches Volume: 0.00 bbl Weight to Pall Loose: 6000.00 lb Dill Collar: Length: 0.00 ft Diameter: 2.25 inches Volume: 0.00 bbl Weight to Pall Loose: 6000.00 lb Drill Fipe Above KE: 4.00 ft Total Volume: 55.11 bbl Tool Chased 0.00 ft Depth to Bottom Packer: 3948.00 ft Total Volume: 55.11 bbl Tool Chased 0.00 ft South to Bottom Packer: 30.00 ft Total Volume: 55.11 bbl Tool Chased 0.00 ft South to Bottom Packer: 30.00 ft Tool Packers: 2 Diameter: 6.75 inches Tool Comments: 2 Diameter: 6.75 inches South Tool 3928.00 Shut In Tool 5.00 3931.00 3938.00 Saufety Joint 2.00 Bottom Of Top Packer <			Tuou, C	51(14120			Job Ticket: 43573	DST#:3
Drill Floe: Length: 3329.00 ft Diameter: 3.80 inches Volume: 55.11 bbl Tool Weight: 2000.00 lb Heavy Wt. Floe: Length: 0.00 ft Diameter: 2.70 inches Volume: 0.00 bbl Weight set on Packer: 25000.00 lb Drill Collar: Length: 0.00 ft Diameter: 2.25 inches Volume: 0.00 bbl Weight to Pull Loose: 60000.00 lb Drill Floe Above KB: 4.00 ft Diameter: 2.25 inches Volume: 55.11 bbl Tool Chased 0.000 ft Depth to Top Packer: 3948.00 ft Total Volume: 55.11 bbl Tool Chased 0.00 ft Depth to Bottom Packer: ft Total Volume: 55.11 bbl Tool Chased 0.00 ft Tool Length: 53.00 ft Total Volume: 55.11 bbl Tool Chased 0.00 ft Number of Packers: 2 Diameter: 6.75 inches Seconder 500 3926.00 Change Over Sub 1.00 3930.00 3938.00 Seconder Seconder 5.00 3938.00 Packer 5.			ATTN:	Pat Deeniha	n		Test Start: 2011.09	9.01 @ 12:04:23
Heavy Wt. Fipe: Length: 0.00 ft Diameter: 2.70 inches Volume: 0.00 bbl Weight set on Packer: 25000.00 lb Xill Collar: Length: 0.00 ft Diameter: 2.25 inches Volume: 0.00 bbl Weight to Pull Locse: 6000.00 lb Xill Pipe Above KB: 4.00 ft Total Volume: 55.11 bbl Tool Chased 0.00 ft Depth To Top Packer: 3948.00 ft Total Volume: 55.11 bbl Tool Chased 0.00 ft Depth to Bottom Packer: ft ft Final 59000.00 lb String Weight: Final Fool Length: 53.00 ft S3.00 ft String Weight: Final 59000.00 lb Variance of Packers: 2 Diameter: 6.75 inches S926.00 Seconder Stool Comments: 1.00 3926.00 3938.00 Seconder Seconder Acker 5.00 3938.00 Seconder Seconder Seconder Seconder Stubb 1.00 3943.00 23.00 Bottom Of Top Packer Seconder Stubb 1.00 3949.00 Secorder 0.00 6755	Tool Information							1.2,1.24
Crill Collar: Length: 0.00 ft Diameter: 2.25 inches Volume: 0.00 bbl Weight to Pull Loose: 60000.00 lb Drill Rpe Above KB: 4.00 ft Total Volume: 55.11 bbl Tool Chased 0.00 ft Depth to Top Packer: 3948.00 ft Total Volume: 55.11 bbl Tool Chased 0.00 ft Depth to Bottom Packer: ft Ft Ft 59000.00 lb Final 59000.00 lb Wheight to Packers: 30.00 ft Kumber of Packers: 2 Diameter: 6.75 inches Tool Comments: 500 Comments: 1.00 3926.00 3931.00 Stute In Tool 5.00 3938.00 Shut In Tool 5.00 3938.00 3938.00 Stute In Tool 5.00 3948.00 Stubb 1.00 3948.00 3949.00 Stubb 1.00 3949.00 Packer 5.00 3949.00 3952.00 Stubb Stubb 1.00 3952.00 Stubb 1.00 6755 Outside 3952.00 Stubb Stubb	Drill Pipe: Length	n: 3929.00 ft	Diameter:	3.80 in	ches Volume:	55.11 bbl	Tool Weight:	2000.00 lb
Total Volume:55.11 bblTotal Chased0.00 ftDrill Pipe Above KB:3.00 ft3948.00 ftString Weight: Initial58000.00 lbDepth to Top Packer:3948.00 ftftFinal59000.00 lbDepth to Bottom Packers:30.00 ft53.00 ftFinal59000.00 lbTool Length:53.00 ft53.00 ftFinal59000.00 lbNumber of Packers:2Diameter:6.75 inches6.75 inchesTool DescriptionLength (ft)Serial No.PositionDepth (ft)Accum. LengthsChange Over Sub1.003926.003931.00400Shut In Tool5.003938.0054ety Joint2.00Safety Joint2.003948.0023.00Bottom Of Top PackerPacker5.003948.0054ety Joint3.003948.00Stubb1.003948.003948.0054ety Joint3.00Packer5.003948.003948.0054ety Joint3.00Packer5.003948.003948.0054ety Joint3.00Packer0.008673Inside3952.0054ety JointPacroder0.006755Outside3952.0054ety JointPacroder0.008673Inside3952.00Pacroder0.008755Outside3952.00Pacroder0.008755Outside3952.00Pacroder0.00875030030.00Pacroder3.003.003975.0	Heavy Wt. Pipe: Length	n: 0.00 ft	Diameter:	2.70 in	ches Volume:	0.00 bbl	Weight set on Pa	acker: 25000.00 lb
Chill Pipe Above KB: 4.00 ft Name String Weight: Initial 58000.00 lb Depth to Top Packer: 3948.00 ft Final 59000.00 lb Final 59000.00 lb Depth to Bottom Packer: 30.00 ft String Weight: Initial 58000.00 lb Final 59000.00 lb Terval betw een Packers: 30.00 ft String Weight: Initial 58000.00 lb Final 59000.00 lb Tool Length: 53.00 ft String Weight: Initial 59000.00 lb Final 59000.00 lb Tool Length: 53.00 ft String Weight: Initial 59000.00 lb Final 59000.00 lb Tool Comments: String Weight: Initial String Weight: Initial 59000.00 lb Final 59000.00 lb Shut In Tool 5.00 3928.00 String Weight: Initial Strin	Drill Collar: Length	n: 0.00 ft	Diameter:	2.25 in	ches Volume:	0.00 bbl	Weight to Pull Lo	oose: 60000.00 lb
Depth to Top Packer: 3948.00 ft String Vergin: Initial 5000.00 ib Depth to Bottom Packer: ft Final 59000.00 ib Depth to Bottom Packer: ft Final 59000.00 ib Fool Length: 53.00 ft String Vergin: Initial 5000.00 ib Vumber of Packers: 2 Diameter: 6.75 inches Fool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths Change Over Sub 1.00 3926.00 3931.00	Crill Pine Above KP:	1 00 ft			Total Volume:	55.11 bbl		
Depth to Bottom Packer: ft Interval betw een Packers: 30.00 ft Fool Length: 53.00 ft Wurber of Packers: 2 2 Diameter: 6.75 inches Fool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths Change Over Sub 1.00 Shut In Tool 5.00 Study In Tool 5.00 Study In Tool 5.00 Safety Joint 2.00 Packer 5.00 Stubb 1.00 Packer 5.00 Stubb 1.00 Stubb 3.00 Secorder 0.00 Stubb <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>String Weight: In</td><td></td></t<>							String Weight: In	
Interval between Packers: 30.00 ft Youndber of Packers: 2 Diameter: 6.75 inches Fool Comments: 2 Diameter: 6.75 inches Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths Change Over Sub 1.00 3926.00 3931.00							F	Final 59000.00 lb
Tool Length: 53.00 ft Number of Packers: 2 Diameter: 6.75 inches Tool Oomments: Position Depth (ft) Accum. Lengths Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths Change Over Sub 1.00 3926.00 3931.00 3931.00 40000 4000 4000								
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Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths Change Over Sub 1.00 3926.00 3931.00 3931.00 4447.00 3936.00 3936.00 3936.00 3936.00 3938.00 4447.00 3943.00 23.00 Bottom Of Top Packet 500 3943.00 23.00 Bottom Of Top Packet 500 3949.00 51.00 51.00 51.00 3949.00 51.00 3949.00 51.00 3949.00 51.00 3949.00 51.00 3952.00 51.00 3952.00 51.00 3952.00 51.00 52.00 52.00 52.00 52.00 51.00 51.0			Diameter:	6.75 in	ches			
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Recorder 0.00 8673 Inside 3952.00 Recorder 0.00 6755 Outside 3952.00 Perforations 23.00 3975.00 3978.00 Bottom Packers & Ancho Bullnose 3.00 3978.00 30.00 Bottom Packers & Ancho	Change Over Sub Shut In Tool Hydraulic tool Safety Joint Packer	Le	1.00 5.00 5.00 2.00 5.00	Serial No.	Position	3926.00 3931.00 3936.00 3938.00 3943.00		Bottom Of Top Packe
Recorder 0.00 6755 Outside 3952.00 Perforations 23.00 3975.00 Bullnose 3.00 3978.00 30.00 Bottom Packers & Ancho	Change Over Sub Shut In Tool Hydraulic tool Safety Joint Packer Packer	Le	1.00 5.00 5.00 2.00 5.00 5.00	Serial No.	Position	3926.00 3931.00 3936.00 3938.00 3943.00 3948.00		Bottom Of Top Packe
Recorder 0.00 6755 Outside 3952.00 Perforations 23.00 3975.00 Bullnose 3.00 3978.00 30.00 Bottom Packers & Ancho	Change Over Sub Shut In Tool Hydraulic tool Safety Joint Packer Packer Stubb	Le	1.00 5.00 5.00 2.00 5.00 5.00 1.00	Serial No.	Position	3926.00 3931.00 3936.00 3938.00 3943.00 3948.00 3949.00		Bottom Of Top Packe
Perforations 23.00 3975.00 Bullnose 3.00 3978.00 30.00 Bottom Packers & Ancho	Change Over Sub Shut In Tool Hydraulic tool Safety Joint Packer Packer Stubb Perforations	Le	1.00 5.00 5.00 2.00 5.00 5.00 1.00 3.00		in en son en Son en son en Son en son en Son en son en Son en son	3926.00 3931.00 3936.00 3938.00 3943.00 3948.00 3949.00 3952.00		Bottom Of Top Packe
Bullnose 3.00 3978.00 30.00 Bottom Packers & Ancho	Change Over Sub Shut In Tool Hydraulic tool Safety Joint Packer Packer Stubb Perforations Recorder	Le	1.00 5.00 5.00 2.00 5.00 5.00 1.00 3.00 0.00	8673	Inside	3926.00 3931.00 3936.00 3938.00 3943.00 3943.00 3948.00 3949.00 3952.00 3952.00		Bottom Of Top Packe
	Change Over Sub Shut In Tool Hydraulic tool Safety Joint Packer Packer Stubb Perforations Recorder Recorder	Le	1.00 5.00 5.00 5.00 5.00 5.00 1.00 3.00 0.00	8673	Inside	3926.00 3931.00 3936.00 3938.00 3943.00 3943.00 3949.00 3952.00 3952.00 3952.00		Bottom Of Top Packe
Total Tool Lengul. 55.00	Change Over Sub Shut In Tool Hydraulic tool Safety Joint Packer Packer Stubb Perforations Recorder Recorder Perforations	Le	1.00 5.00 5.00 5.00 5.00 1.00 3.00 0.00 0.00 23.00	8673	Inside	3926.00 3931.00 3936.00 3938.00 3943.00 3948.00 3949.00 3952.00 3952.00 3952.00 3952.00	23.00	
	Change Over Sub Shut In Tool Hydraulic tool Safety Joint Packer Packer Stubb Perforations Recorder Recorder Perforations Bullnose	,	1.00 5.00 5.00 5.00 5.00 1.00 3.00 0.00 23.00 3.00	8673	Inside	3926.00 3931.00 3936.00 3938.00 3943.00 3948.00 3949.00 3952.00 3952.00 3952.00 3952.00	23.00	Bottom Of Top Packe
	Change Over Sub Shut In Tool Aydraulic tool Safety Joint Packer Packer Stubb Perforations Recorder Recorder Perforations Bullnose	,	1.00 5.00 5.00 5.00 5.00 1.00 3.00 0.00 23.00 3.00	8673	Inside	3926.00 3931.00 3936.00 3938.00 3943.00 3948.00 3949.00 3952.00 3952.00 3952.00 3952.00	23.00	

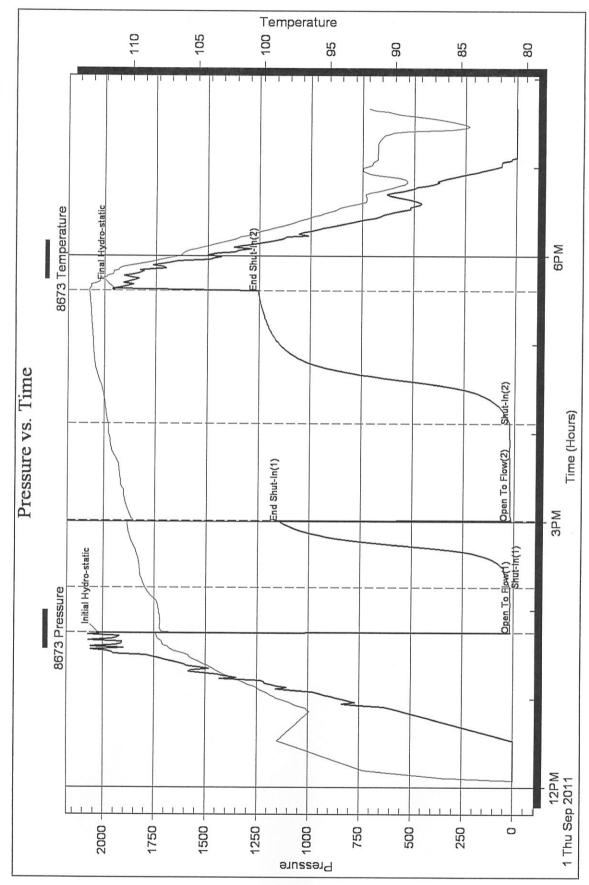
(IN TO		DR	LL STEM TES	T REPORT	Г		FLUID SUMMARY
	ILOBITE ESTING , INC	Culbre	ath Oil & Gas Company		Ronald #	1-8	
	ESTING, INC	1532 8	6. Peoria Avenue		8-9s-24w	Graham,KS	
		Tulsa,	OK 74120		Job Ticket:	43573	DST#:3
		ATTN:	Pat Deenihan		Test Start: 2	2011.09.01 @ 12	2:04:23
Mud and Cushic	on Information	D.					
Water Loss: Resistivity:	em 9.00 lb/gal 58.00 sec/qt 6.79 in ³ ohmm 00.00 ppm inches	r A Malat Malat Malat	Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type Gas Cushion Press		ft bbl psig	Oil API: Water Salinity:	37 deg API ppm
Recovery Inform	nation						
			Recovery Table		-167 1.1	_	
	Lengt ft	h	Description		Volume bbl		
		20.00	MCO-45%O-55%M		0.28		
		5.00	Free Oil		0.070	-	
		0.00	120' Gas In Pipe	and the second second second	0.000	<u>1</u>	
	Total Length:		.00 ft Total Volume:	0.351 bbl			
	Num Fluid Samp		Num Gas Bomb		Serial #	:	
	Laboratory Nam Recovery Comm		Laboratory Loc	ation:			
	Necovery contra	EIIIS.					
							(39)

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Serial #: 8673 Inside Oulbreath Oil & Gas Company

8-9s-24w Graham,KS





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Ref. No: 43573



DRILL STEM TEST REPORT

Prepared For: Culbreath Oil & Gas Company

1532 S. Peoria Avenue Tulsa, OK 74120

ATTN: Pat Deenihan

8-9s-24w Graham,KS

Ronald #1-8

Start Date: 2011.09.02 @ 03:37:56 End Date: 2011.09.02 @ 12:07:41 Job Ticket #: 43574 DST#: 4

Trilobite Testing, Inc PO Box 1733 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

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SOA	RILOBITE	DRILL STEM TE	STREP	ORI				
HAN I	first attention of the second s	Culbreath Oil & Gas Company		Ronald #1-8				
ESTING , INC		1532 S. Peoria Avenue Tulsa, OK 74120		8-9s-24w Graham,KS Job Ticket: 43574 DST#:4				
		ATTN: Pat Deenihan		Tes	st Start: 20	011.09.02	@ 03:37:56	
GENERAL	INFORMATION:							
	ĸ					-		
	No Whipstock: ened: 06:11:11 ded: 12:07:41	ft (KB)		Tes	ster:	Conventior Jason McL 54	nal Bottom H .emore	ole
nterval:	3978.00 ft (KB) To 40	000.00 ft (KB) (TVD)		Ref	erence Be	evations:	2452.00) ft (KB)
otal Depth:	4000.00 ft(KB)(T							0 ft (CF)
lole Diameter	7.88 inchesHole	e Condition: Good			KB	to GR/CF:	8.00	D ft
Serial #: 8	3673 Inside			3 . L 1. M				
ress@RunD	epth: 135.53 psig	@ 3992.00 ft (KB)		Capacity	' :		8000.00) psig
start Date:	2011.09.02	End Date:	2011.09.02 12:07:41					
Start Time:	03:37:58	End Time:	Time On Btm 2011.09.02 @ 06:10:56 Time Off Btm 2011.09.02 @ 10:02:56					
	ISI-Dead	11 I. OII						
	FFP-Fair Blow ,Bu FSI-Dead	uilt to 6"						
	FFP-Fair Blow ,Bu			PI	RESSUF	RESUM	MARY	
E	FFP-Fair Blow ,Bu FSI-Dead	ime 8573 Temperature	Time	Pressure	Temp	RE SUMM		
2000	FFP-Fair Blow ,Bu FSI-Dead Pressure vs. T	1700 0073 Temperature 100 / Internet-Max 100 / Internet-Max 100 / Internet-Max	(Min.)	Pressure (psig)	Temp (deg F)	Annotat	tion	
Ē	FFP-Fair Blow ,Bu FSI-Dead Pressure vs. T	ime 8573 Temperature		Pressure	Temp (deg F) 108.26	Annotat	tion Iro-static	
1750 -	FFP-Fair Blow ,Bu FSI-Dead Pressure vs. T	1700 0073 Temperature 100 / Internet-Max 100 / Internet-Max 100 / Internet-Max	(Min.) 0 1 32	Pressure (psig) 2047.11 34.42 91.50	Temp (deg F) 108.26 106.85 118.57	Annotat Initial Hyd Open To Shut-In(1	tion Iro-static Flow (1))	
1750	FFP-Fair Blow ,Bu FSI-Dead Pressure vs. T	120 120 120 120 120 120 120 120	(Min.) 0 1 32 77	Pressure (psig) 2047.11 34.42 91.50 614.16	Temp (deg F) 108.26 106.85 118.57 118.53	Annotat Initial Hyd Open To Shut-In(1 End Shut-	tion Iro-static Flow (1)) -In(1)	
1790	FFP-Fair Blow ,Bu FSI-Dead Pressure vs. T	1000 0073 TemperZure 1000 Viet News Mic 1000 Viet News Mic 100	(Min.) 0 1 32 77 78	Pressure (psig) 2047.11 34.42 91.50 614.16 96.08	Temp (deg F) 108.26 106.85 118.57 118.53 118.26	Annotat Initial Hyd Open To Shut-In(1 End Shut- Open To	tion Flow (1)) -In(1) Flow (2)	
	FFP-Fair Blow ,Bu FSI-Dead Pressure vs. T	1073 Temperature 1073 Temperature 100 / 101 New York 100 / 101 100 / 105 100 / 100	(Min.) 0 1 32 77	Pressure (psig) 2047.11 34.42 91.50 614.16	Temp (deg F) 108.26 106.85 118.57 118.53 118.26 119.46	Annotat Initial Hyd Open To Shut-In(1 End Shut-	tion Flow (1)) -In(1) Flow (2)	
1750	FFP-Fair Blow ,Bu FSI-Dead Pressure vs. T	1000 0073 TemperZure 1000 Viet News Mic 1000 Viet News Mic 100	(Min.) 0 1 32 77 78 136	Pressure (psig) 2047.11 34.42 91.50 614.16 96.08 135.53	Temp (deg F) 108.26 106.85 118.57 118.53 118.26 119.46 119.12	Annotat Initial Hyd Open To Shut-In(1 End Shut- Open To Shut-In(2	tion Flow (1)) -ln(1) Flow (2)) -ln(2)	
	FFP-Fair Blow ,Bu FSI-Dead	1073 Temperature 1073 Temperature 100 / 101 New York 100 / 101 100 / 105 100 / 100	(Min.) 0 1 32 77 78 136 231	Pressure (psig) 2047.11 34.42 91.50 614.16 96.08 135.53 486.48	Temp (deg F) 108.26 106.85 118.57 118.53 118.26 119.46 119.12	Annotat Initial Hyd Open To Shut-In(1 End Shut- Open To Shut-In(2 End Shut-	tion Flow (1)) -ln(1) Flow (2)) -ln(2)	
1720	FFP-Fair Blow, Bu FSI-Dead	10073 Temperiture 10073 Temperiture 100 101 101 101 102 103 103 103 104 105 100 100 100 100 100 100 100	(Min.) 0 1 32 77 78 136 231	Pressure (psig) 2047.11 34.42 91.50 614.16 96.08 135.53 486.48	Temp (deg F) 108.26 106.85 118.57 118.53 118.26 119.46 119.12	Annotat Initial Hyd Open To Shut-In(1 End Shut- Open To Shut-In(2 End Shut-	tion Flow (1)) -ln(1) Flow (2)) -ln(2)	
	FFP-Fair Blow ,Bu FSI-Dead	120 120 120 120 120 120 120 120	(Min.) 0 1 32 77 78 136 231	Pressure (psig) 2047.11 34.42 91.50 614.16 96.08 135.53 486.48	Temp (deg F) 108.26 106.85 118.57 118.53 118.26 119.46 119.12	Annotat Initial Hyd Open To Shut-In(1 End Shut- Open To Shut-In(2 End Shut-	tion Flow (1)) -ln(1) Flow (2)) -ln(2)	
	FFP-Fair Blow, Bu FSI-Dead	120 120 120 120 120 120 120 120	(Min.) 0 1 32 77 78 136 231	Pressure (psig) 2047.11 34.42 91.50 614.16 96.08 135.53 486.48	Temp (deg F) 108.26 106.85 118.57 118.53 118.26 119.46 119.12	Annotat Initial Hyd Open To Shut-In(1 End Shut- Open To Shut-In(2 End Shut-	tion Flow (1)) -ln(1) Flow (2)) -ln(2)	
	FFP-Fair Blow, Bu FSI-Dead	1000 Temperiture 1000 Temperi	(Min.) 0 1 32 77 78 136 231	Pressure (psig) 2047.11 34.42 91.50 614.16 96.08 135.53 486.48	Temp (deg F) 108.26 106.85 118.57 118.53 118.26 119.46 119.12 118.55	Annotat Initial Hyd Open To Shut-In(1 End Shut- Open To Shut-In(2 End Shut-	tion Flow (1)) -ln(1) Flow (2)) -ln(2)	
	FFP-Fair Blow, Bu FSI-Dead	1000 Temperiture 1000 Temperi	(Min.) 0 1 32 77 78 136 231	Pressure (psig) 2047.11 34.42 91.50 614.16 96.08 135.53 486.48	Temp (deg F) 108.26 106.85 118.57 118.53 118.26 119.46 119.12 118.55	Annotat Initial Hyd Open To Shut-In(1 End Shut- Gen To Shut-In(2 End Shut- Final Hyd	tion Flow (1)) -In(1) Flow (2)) -In(2) tro-static	sas Rele (Mct/d)
1720	FFP-Fair Blow, Bu FSI-Dead	ime 9073 Temperzure 100 100 100 100 100 100 100 10	(Min.) 0 1 32 77 78 136 231	Pressure (psig) 2047.11 34.42 91.50 614.16 96.08 135.53 486.48	Temp (deg F) 108.26 106.85 118.57 118.53 118.26 119.46 119.12 118.55	Annotat Initial Hyd Open To Shut-In(1 End Shut- Gen To Shut-In(2 End Shut- Final Hyd	tion Flow (1)) -In(1) Flow (2)) -In(2) tro-static	Sas Rate (Mcf/d)
1730 1740 174 1740 1	FFP-Fair Blow, Bu FSI-Dead Pressure vs. T 6573 Pressure 6573 Pressure 65	0070 Temperature 120 100 110 101 105 102 100 103 100 104 105 105 100 106 00 107 00 108 100 109 100 100 00 100	(Min.) 0 1 32 77 78 136 231	Pressure (psig) 2047.11 34.42 91.50 614.16 96.08 135.53 486.48	Temp (deg F) 108.26 106.85 118.57 118.53 118.26 119.46 119.12 118.55	Annotat Initial Hyd Open To Shut-In(1 End Shut- Gen To Shut-In(2 End Shut- Final Hyd	tion Flow (1)) -In(1) Flow (2)) -In(2) tro-static	sas Rate (Mcf/d)
1730 1730 1730 1730 1730 1730 1730 1730 1730 1730 1730 1730 1730 1730 1740	FFP-Fair Blow, Bu FSI-Dead	Imme 0073 Temperature 120 Imme Immerature 115 Immerature 100 100 Immerature 000 00 Immerature 000 000 Immerature 0000 000 <td>(Min.) 0 1 32 77 78 136 231 232</td> <td>Pressure (psig) 2047.11 34.42 91.50 614.16 96.08 135.53 486.48</td> <td>Temp (deg F) 108.26 106.85 118.57 118.53 118.26 119.46 119.12 118.55</td> <td>Annotat Initial Hyd Open To Shut-In(1 End Shut- Gen To Shut-In(2 End Shut- Final Hyd</td> <td>tion Flow (1)) -In(1) Flow (2)) -In(2) tro-static</td> <td>5as Rate (Mct/d)</td>	(Min.) 0 1 32 77 78 136 231 232	Pressure (psig) 2047.11 34.42 91.50 614.16 96.08 135.53 486.48	Temp (deg F) 108.26 106.85 118.57 118.53 118.26 119.46 119.12 118.55	Annotat Initial Hyd Open To Shut-In(1 End Shut- Gen To Shut-In(2 End Shut- Final Hyd	tion Flow (1)) -In(1) Flow (2)) -In(2) tro-static	5as Rate (Mct/d)
	FFP-Fair Blow, Bu FSI-Dead Pressure vs. T 6573 Pressure 6573 Pressure 65	0070 Temperature 120 100 110 101 105 102 100 103 100 104 105 105 100 106 00 107 00 108 100 109 100 100 00 100	(Min.) 0 1 32 77 78 136 231 232	Pressure (psig) 2047.11 34.42 91.50 614.16 96.08 135.53 486.48	Temp (deg F) 108.26 106.85 118.57 118.53 118.26 119.46 119.12 118.55	Annotat Initial Hyd Open To Shut-In(1 End Shut- Gen To Shut-In(2 End Shut- Final Hyd	tion Flow (1)) -In(1) Flow (2)) -In(2) tro-static	ias Rate (Mct/d)

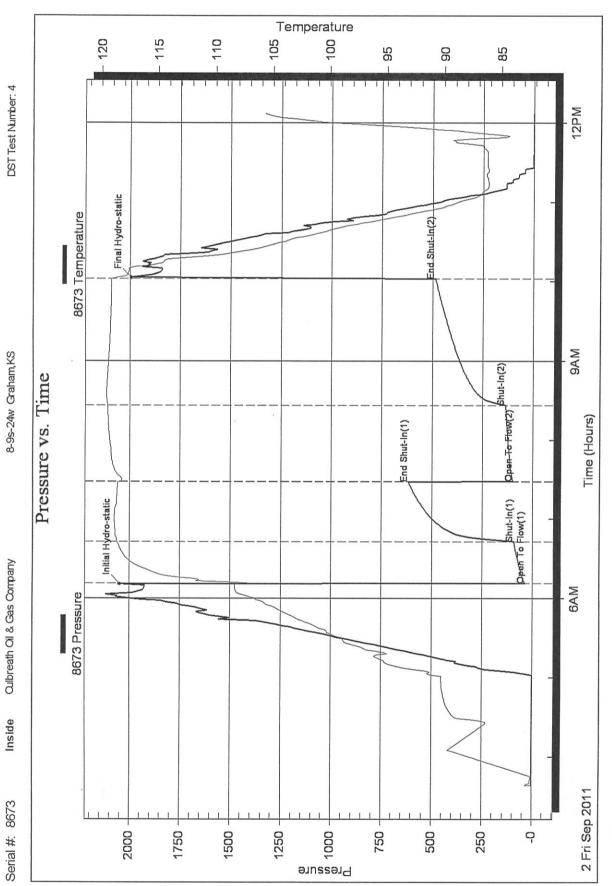
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	BITE				REPOR		TOOL DIAGRA
		Culbrea	th Oil & Gas	Company		Ronald #1-8	
ES ES	TING , INC	1002 0.	Peoria Aven	ue		8-9s-24w Graham	,KS
		Tulsa, C	DK 74120			Job Ticket: 43574	DST#:4
		ATTN:	Pat Deeniha	n		Test Start: 2011.09.02	2 @ 03:37:56
Tool Information		I					
Drill Pipe: Length:	3968.00 ft	Diameter:	3.80 in	ches Volume:	55.66 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe: Length:	0.00 ft	Diameter:	2.70 in	ches Volume:	0.00 bbl	Weight set on Pack	er: 25000.00 lb
Drill Collar: Length:	0.00 ft	Diameter:	2.25 in	ches Volume:	0.00 bbl	Weight to Pull Loos	e: 62000.00 lb
Drill Fine Above KP	2 00 4			Total Volume:	55.66 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB: Depth to Top Packer:	3.00 ft 3988.00 ft					String Weight: Initia	l 58000.00 lb
Depth to Bottom Packer:	5966.00 ft					Fina	I 60000.00 lb
Interval between Packers:							
Tool Length:	45.00 ft						
Number of Packers:	2	Diameter:	6.75 in	ches			
Tool Comments:							
Tool Description	Le	ngth (ft)	Serial No.	Position	Depth (ft) A	ccum. Lengths	
Change Over Sub		1.00			3966.00		
Shut In Tool		5.00			3971.00		
Hydraulic tool		5.00			3976.00		
Safety Joint		2.00			3978.00		
Packer		5.00			3983.00	23.00	Bottom Of Top Packer
Packer		5.00			3988.00		
04.44		1.00			3989.00		
Stubb		3.00			3992.00		
Stubb Perforations			,				
Perforations		0.00	8673	Inside	3992.00		
			8673 6755				
Perforations Recorder		0.00 0.00 15.00	8673 6755	Inside Outside	3992.00 3992.00 4007.00		
Perforations Recorder Recorder		0.00			3992.00	22.00	Bottom Packers & Anchor

10 h		סודר	DRI	LL STEM TEST RE	PORT	-		FLUID SUMMAR
UED)	RILO	BILE	Culbre	ath Oil & Gas Company		Ronald #	1-8	
	ES	TING , INC	1532 5	S. Peoria Avenue			Graham,KS	
			Tulsa,	OK 74120		Job Ticket: 4		DST#:4
		2332	ATTN:	Pat Deenihan		Test Start: 2	2011.09.02 @ 03	3:37:56
/lud and C	ushion In	formation						
	Gel Chem			Cushion Type:			Oil API:	deg API
/lud Weight:) lb/gal		Cushion Length:		ft	Water Salinity:	31500 ppm
iscosity:) sec/qt		Cushion Volume:		bbl		
Vater Loss:	6.78			Gas Cushion Type:		1 (a.		
esistivity:	1400.00	ohmm		Gas Cushion Pressure:		psig		
alinity: Iter Cake:	1100.00	inches						
ecovery l	nformatio	on		r.				
		3		Recovery Table				
		Lengt ft	h	Description		Volume bbl]	
			60.00	VSOCMW-1%O-94%W-5%M		0.842	+	
			120.00	OCMV-15%O-20%W-65%M		1.683	+	
			75.00	MWCO-55%O-10%W-35%M		1.052	+	
			0.00	120' Gas In Pipe		0.000		
	т	otal Length:	255	.00 ft Total Volume: 3	3.577 bbl			
	L	lum Fluid Samp aboratory Nam	e:	Num Gas Bombs: 0 Laboratory Location:		Serial #		
	R	ecovery Com	nents:					

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