

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1062835

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:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
U	
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW	Amount of Surface Pipe Set and Cemented at: Feet
Gas D&A ENHR SIGW	Multiple Stage Cementing Collar Used? Yes No
OG GSW Temp. Abd.	If yes, show depth set: Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from:
Cathodic Other (Core, Expl., etc.):	feet depth to:w/sx cmt.
If Workover/Re-entry: Old Well Info as follows:	
Operator:	Drilling Fluid Management Disp
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
Conv. to GSW	Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	
SWD Permit #:	Lease Name: License #:
ENHR Permit #:	Quarter Sec TwpS. R East West
GSW Permit #:	County: Permit #:
Spud Date or Recompletion Date Date Reached 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	1062835
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 Nam	-	n (Top), Depth and	d Datum Top	Sample Datum
Samples Sent to Geolog	ical Survey	Yes No	INAI			юр	Datum
Cores Taken Electric Log Run Electric Log Submitted E (If no, Submit Copy)	Electronically	☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
		CASIN	G RECORD	ew Used			
		Report all strings se	t-conductor, surface, int	ermediate, producti	on, 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 RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated					e			ement Squeeze Record I of Material Used)	Depth
TUBING RECORD:	Siz	ze:	Set At:		Packer	At:	Liner R	un:	No	
Date of First, Resumed I	Product	on, SWD or ENH	ર .	Producing N	lethod:	oing	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
			I							
DISPOSITIC	ON OF G	BAS:			METHOD	OF COMPLE	TION:		PRODUCTION INTE	RVAL:
Vented Sold		Jsed on Lease		Open Hole	Perf.	Uually (Submit)		Commingled (Submit ACO-4)		
(If vented, Sub	omit ACC	-18.)		Other (Specify)						

Form	ACO1 - Well Completion
Operator	Credo Petroleum Corporation
Well Name	Sandra 1-3
Doc ID	1062835

All Electric Logs Run

Dual Induction
Dual Compensated Porosity
Microlog
Borehole Compensated Sonic

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Mark Sievers, Chairman Ward Loyd, Commissioner Thomas E. Wright, Commissioner Sam Brownback, Governor

February 23, 2012

Jack Renfro Credo Petroleum Corporation 1801 BROADWAY # 900 DENVER, CO 80202-3858

Re: ACO1 API 15-101-22306-00-00 Sandra 1-3 NE/4 Sec.03-17S-29W Lane 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, Jack Renfro Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Mark Sievers, Chairman Ward Loyd, Commissioner Thomas E. Wright, Commissioner Sam Brownback, Governor

February 24, 2012

Jack Renfro Credo Petroleum Corporation 1801 BROADWAY # 900 DENVER, CO 80202-3858

Re: ACO-1 API 15-101-22306-00-00 Sandra 1-3 NE/4 Sec.03-17S-29W Lane County, Kansas

Dear Jack Renfro:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 8/23/2011 and the ACO-1 was received on February 23, 2012 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department



DRILL STEM TEST REPORT

Prepared For: Credo Petroleum Corperation

1801 Broadway #900 Denver, CO 80202

ATTN: Bruce Ard

3-17s-29w Lane,KS

Sandra #1-3

2011.08.29 @ 06:19:00 Start Date: End Date: 2011.08.29 @ 13:18:00 Job Ticket #: 43640 DST#: 1

Trilobite Testing, Inc PO Box 1733 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620 2011.08.29

DST # 1

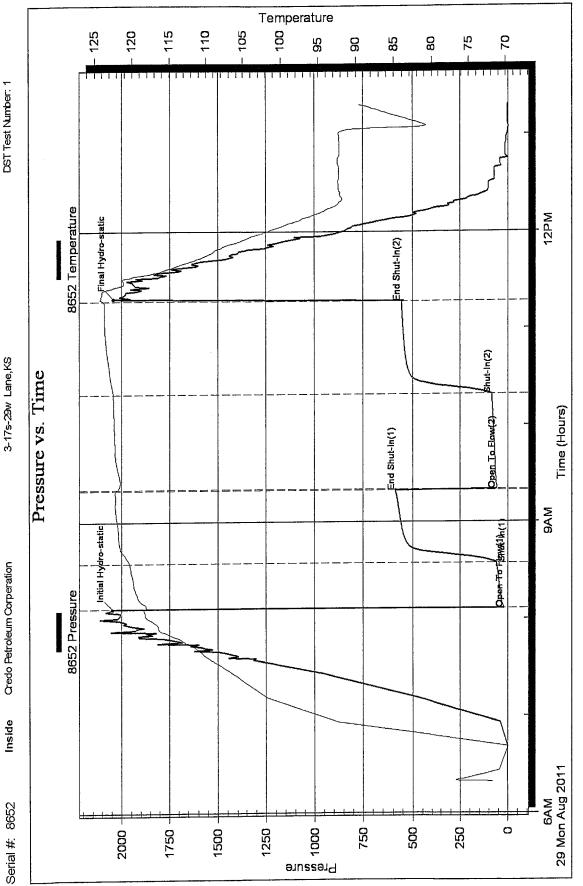
	DRILL STEM TES	ST REPORT
RILOBITE	Credo Petroleum Corperation	Sandra #1-3
ESTING , INC	1801 Broadw ay #900 Denver, CO 80202	3-17s-29w Lane,KS Job Ticket: 43640 DST#:1
	ATTN: Bruce Ard	Job Ticket: 43640 DST#:1 Test Start: 2011.08.29 @ 06:19:00
GENERAL INFORMATION:		
Formation:Lansing I-JDeviated:NoWhipstock:Time Tool Opened:08:06:30Time Test Ended:13:18:00	ft (KB)	Test Type:Conventional Bottom HoleTester:Bradley WalterUnit No:40
Interval:4152.00 ft (KB) To42Total Depth:4200.00 ft (KB) (The constraint of the constraint of t		Reference Elevations: 2808.00 ft (KB) 2803.00 ft (CF) KB to GR/CF: 5.00 ft
Serial #: 8652 Inside Press@RunDepth: 84.13 psig Start Date: 2011.08.29 Start Time: 06:19:05	@ 4153.00 ft (KB) End Date: End Time:	Capacity: 8000.00 psig 2011.08.29 Last Calib.: 2011.08.29 13:17:59 Time On Btm: 2011.08.29 @ 08:06:15 Time Off Btm: 2011.08.29 @ 11:18:30
TEST COMMENT: IF: 9 1/2" Blow. ISI: No return. FF: BOB@ 16 mi FSI No return blo		
Pressure vs. I		PRESSURE SUMMARY
2000 1/201 1/20	002 Terreteruite 125 125 125 125 125 125 125 125	
Recovery		Gas Rates
Length (ft) Description	Volume (bbi)	Choke (inches) Pressure (psig) Gas Rate (Mct/d)
180.00 gmco 20g 30m 50o	0.89	
20.00 fo 100%o 0.00 540ft GIP	0.24	
Trilobite Testing, Inc	Ref. No: 43640	Printed: 2011.09.08 @ 13:32:24 Page 2

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	RILOE	NTF	DRII	LL STE	MTEST	REPO	RT	TOOL DIAGRA
			Credo F	Petroleum Cor	peration		Sandra #1-3	
	 EST	T <mark>ING</mark> , INC		oadw ay #90 , CO 80202	0		3-17s-29w Lane,K Job Ticket: 43640	S DST#:1
			ATTN:	Bruce Ard			Test Start: 2011.08.29	@ 06:19:00
Tool Informatio	n							
Drill Pipe:	Length:	3954.00 ft	Diameter:	3.80 ind	ches Volume:	55.46 bbl		2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 ind	ches Volume:	0.00 bbl		
Drill Collar:	Length:	184.00 ft	Diameter:	-	ches Volume:	0.90 bbl	-	
Drill Pipe Above K	'n.	14.00 ft			Total Volume:	56.36 bbl		0.00 ft
Depth to Top Pack		4152.00 ft					String Weight: Initial Final	60000.00 lb 60000.00 lb
Depth to Bottom F		4102.00 ft					Final	0000.00 m
nterval between		48.00 ft						
Fool Length:		76.00 ft						
lumber of Packer	rs:	2	Diameter:	6.75 in	ches			
Tool Comments:								
Tool Descriptio		Le	n gth (ft) 1.00	Serial No.	Position	Depth (ft) 4125.00	Accum. Lengths	w
Change Over Sub			1 1 1 1					
)							
)		5.00			4130.00		
Hydraulic tool)		5.00 5.00			4130.00 4135.00		
Hydraulic tool Jars)		5.00 5.00 5.00			4130.00 4135.00 4140.00		
Hydraulic tool Jars Safety Joint)		5.00 5.00 5.00 2.00			4130.00 4135.00 4140.00 4142.00	28.00	Bottom Of Top Packe
Hydraulic tool Jars Safety Joint Packer			5.00 5.00 5.00 2.00 5.00			4130.00 4135.00 4140.00	28.00	Bottom Of Top Packe
Hydraulic tool Jars Safety Joint Packer Packer)		5.00 5.00 5.00 2.00 5.00 5.00			4130.00 4135.00 4140.00 4142.00 4147.00	28.00	Bottom Of Top Packe
Hydraulic tool Jars Safety Joint Packer Packer Stubb			5.00 5.00 5.00 2.00 5.00	8652	Inside	4130.00 4135.00 4140.00 4142.00 4147.00 4152.00	28.00	Bottom Of Top Packer
Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder			5.00 5.00 5.00 2.00 5.00 5.00 1.00	8652 8360	Inside Outside	4130.00 4135.00 4140.00 4142.00 4147.00 4152.00 4153.00	28.00	Bottom Of Top Packe
Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder			5.00 5.00 2.00 5.00 5.00 1.00 0.00			4130.00 4135.00 4140.00 4142.00 4147.00 4152.00 4153.00 4153.00	28.00	Bottorn Of Top Packe
Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations			5.00 5.00 2.00 5.00 5.00 1.00 0.00 0.00			4130.00 4135.00 4140.00 4142.00 4147.00 4152.00 4153.00 4153.00	28.00	Bottom Of Top Packe
Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sub			5.00 5.00 2.00 5.00 5.00 1.00 0.00 0.00 10.00			4130.00 4135.00 4140.00 4142.00 4147.00 4152.00 4153.00 4153.00 4153.00 4163.00	28.00	Bottom Of Top Packe
Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Fipe)		5.00 5.00 2.00 5.00 5.00 1.00 0.00 10.00 1.00			4130.00 4135.00 4140.00 4142.00 4147.00 4152.00 4153.00 4153.00 4153.00 4163.00 4164.00		
Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sub)		5.00 5.00 2.00 5.00 5.00 1.00 0.00 10.00 1.00 32.00			4130.00 4135.00 4140.00 4142.00 4147.00 4152.00 4153.00 4153.00 4153.00 4163.00 4164.00 4196.00		Bottorn Of Top Packe

	RILOBITE		ILL STEM TEST REPO	. <u></u>	FLUID SUMMAR		
TESTING, INC		Credo	Petroleum Corperation	Sandra #	#1-3		
打	ESTING, INC	1 10011	Broadw ay #900 r, CO 80202	3-17s-29v Job Ticket:	v Lane,KS 43640	DST#:1	
		ATTN:	Bruce Ard		2011.08.29 @ 06		
/lud and Cus	hion Information	ļ	<u></u>				
••	Chem		Cushion Type:		Oil API:	37 deg API	
lud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	0 ppm	
'iscosity: <i>V</i> ater Loss:	68.00 sec/qt 6.32 in³		Cushion Volume: Gas Cushion Type:	bbl			
esistivity:	ohmm		Gas Cushion Pressure:	psig			
alinity:	1300.00 ppm			10			
ter Cake:	1.00 inches						
ecovery Info	ormation		Pasayany Tabla				
	Leng	,th	Recovery Table Description	Volume	1		
	ft			ldd	4		
		180.00	gmco 20g 30m 50o	0.88			
		20.00	fo 100%o 540ft GIP	0.24			
	Total Length:		.00ft Total Volume: 1.129 b	•	<u>9</u>		
					4.		
	Num Fluid Sam Laboratory Nar		Num Gas Bombs: 0 Laboratory Location:	Serial #	F.		
			Plis 39 @ 80 = 37				
	-	x	-				

DST Test Number: 1



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Ref. No: 43640





DRILL STEM TEST REPORT

Prepared For: Credo Petroleum Corperation

1801 Broadway #900 Denver, CO 80202

ATTN: Bruce Ard

3-17s-29w Lane,KS

Sandra #1-3

2011.08.29 @ 20:58:00 Start Date: End Date: 2011.08.30 @ 04:19:30 Job Ticket #: 43641 DST#: 2

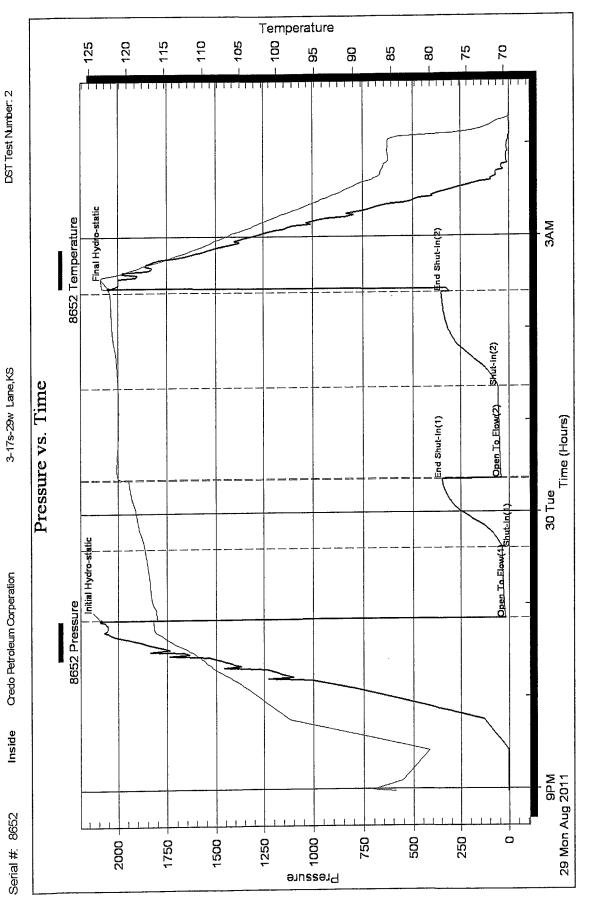
Trilobite Testing, Inc PO Box 1733 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

10 m		DRILL STEM TE	ES	TREP	ORT				
RILOBITE		Credo Petroleum Corperation			Sa	ndra #1	-3		
	ESTING , INC	1801 Broadw ay #900 Denver, CO 80202					Lane,KS	S DST#	L 0
		ATTN: Bruce Ard				o Ticket: 43 st Start: 20		#20:58:00 20:58:00	
GENERAL IN	NFORMATION:								
Formation: Deviated: Time Tool Öpen Time Test Ended		ft (KB)			Tes	ster:	Conventior Bradley W 40	nal Bottom H alter	lole
Interval: Total Depth: Hole Diameter:	4202.00 ft (KB) To 42 4200.00 ft (KB) (Tv 7.88 inchesHole				Rel	erence Be KB t	evations: to GR/CF:	2803.0	00 ft(KB) 10 ft(CF) 10 ft
Serial #: 86 Press@RunDep Start Date: Start Time:		@ 4203.00 ft (KB) End Date: End Time:		2011.08.30 04:19:29	Capacity Last Cal Time On Time Off	ib.: Btm :		8000.0 2011.08.3 @ 22:50:1) @ 02:26:3	5
TEST COMM	IENT: IF: 1 1/4 " blow . ISI:No return. FF: 1" blow . FSI: No return.								
	Pressure vs. 1	ime			Р	RESSUF	RE SUM	MARY	
2000 1720 1500 1230 770 600 20 600 600 600 600 600 600	0002 Pressee		22 15 12 05 00 15 0 5 0 5	Time (Min.) 0 1 47 91 92 152 214 217	Pressure (psig) 2087.69 19.49 38.77 344.41 42.19 57.92 346.57 2045.62	115.12 117.66 119.77 120.80 121.16	Open To Shut-In(2 End Shut	Iro-static Flow (1)) -In(1) Flow (2)) -In(2)	
	Recovery					Ga	s Rates		
Length (ft)	Description	Volume (bbl)				Choke (i	nches) Pres	sure (psig)	Gas Rate (Mcf/d)
+	gocm 5g 350 60m 100ft GIP	0.39 0.00							
Trilobite Test	Ning Inc	Ref. No: 43641				Printed [.]	2011 09 0	8@13.32.5	6 Page 2

RILOE		Credo I	Petroleum Cor	peration		Sandra #1-3		<u>.</u> .
(ES7	TNG , INC	1801 B	roadw ay #90	00		3-17 s- 29w La	ane,KS	
			, 00 80202			Job Ticket: 436	41	DST#:2
		ATTN:	Bruce Ard			Test Start: 201	1.08.29 @	20:58:00
Tool Information			<u> </u>					······································
Drill Pipe: Length:	4077.00 ft	Diameter:	3.80 in	ches Volume:	57.19 bb	-		2000.00 lb
Heavy Wt. Pipe: Length:	0.00 ft	Diameter:	0.00 in	ches Volume:	0.00 bb			: 25000.00 lb
Drill Collar: Length:	122.00 ft	Diameter:	2.25 in	ches Volume:				77000.00 lb
Drill Pipe Above KB:	25.00 ft			Total Volume:	57.79 bb			0.00 ft
Depth to Top Packer:	4202.00 ft					String Weigh		62000.00 lb
Depth to Bottom Packer:	-4202.00 ft						Final	62000.00 lb
Interval between Packers:	47.00 ft							
Tool Length:	75.00 ft							
Number of Packers:	2	Diameter:	6.75 in	ches				
I ool Comments:								
Tool Comments:								
Tool Description	Ler		Serial No.	Position		Accum. Lengths		
Tool Description Change Over Sub	Ler	1.00	Serial No.	Position	4175.00	Accum. Lengths		
Tool Description Change Over Sub Shut In Tool	Ler	1.00 5.00	Serial No.	Position	4175.00 4180.00	Accum. Lengths		
Tool Description Change Over Sub Shut In Tool Hydraulic tool	Ler	1.00 5.00 5.00	Serial No.	Position	4175.00 4180.00 4185.00	Accum. Lengths		
Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars	Ler	1.00 5.00 5.00 5.00	Serial No.	Position	4175.00 4180.00 4185.00 4190.00	Accum. Lengths		
Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint	Ler	1.00 5.00 5.00 5.00 2.00	Serial No.	Position	4175.00 4180.00 4185.00 4190.00 4192.00			
Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer	Ler	1.00 5.00 5.00 5.00 2.00 5.00	Serial No.	Position	4175.00 4180.00 4185.00 4190.00 4192.00 4197.00	Accum. Lengths		Bottom Of Top Packe
Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer	Ler	1.00 5.00 5.00 5.00 2.00 5.00 5.00	Serial No.	Position	4175.00 4180.00 4185.00 4190.00 4192.00 4197.00 4202.00			Bottom Of Top Packe
Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb	Ler	1.00 5.00 5.00 5.00 2.00 5.00 5.00 1.00			4175.00 4180.00 4185.00 4190.00 4192.00 4197.00 4202.00 4203.00			Bottom Of Top Packe
Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder	Ler	1.00 5.00 5.00 5.00 2.00 5.00 5.00 1.00 0.00	8652	Inside	4175.00 4180.00 4185.00 4190.00 4192.00 4197.00 4202.00 4203.00 4203.00			Bottom Of Top Packe
Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder		1.00 5.00 5.00 2.00 5.00 5.00 1.00 0.00 0.00			4175.00 4180.00 4185.00 4190.00 4192.00 4197.00 4202.00 4203.00 4203.00			Bottom Of Top Packe
Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations		1.00 5.00 5.00 2.00 5.00 5.00 5.00 1.00 0.00 0.00 10.00	8652	Inside	4175.00 4180.00 4185.00 4190.00 4192.00 4197.00 4202.00 4203.00 4203.00 4203.00 4213.00			Bottom Of Top Packe
Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sub		1.00 5.00 5.00 2.00 5.00 5.00 5.00 1.00 0.00 10.00 1.00	8652	Inside	4175.00 4180.00 4185.00 4190.00 4192.00 4197.00 4202.00 4203.00 4203.00 4203.00 4203.00 4213.00 4214.00			Bottom Of Top Packe
Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe		1.00 5.00 5.00 5.00 5.00 5.00 5.00 1.00 0.00 10.00 1.00 31.00	8652	Inside	4175.00 4180.00 4185.00 4190.00 4192.00 4192.00 4202.00 4203.00 4203.00 4203.00 4203.00 4213.00 4214.00 4245.00			Bottom Of Top Packe
Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub		1.00 5.00 5.00 2.00 5.00 5.00 5.00 1.00 0.00 1.00 31.00 1.00	8652	Inside	4175.00 4180.00 4185.00 4190.00 4192.00 4197.00 4202.00 4203.00 4203.00 4203.00 4203.00 4213.00 4214.00 4245.00 4246.00	28.00		
Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sub		1.00 5.00 5.00 5.00 2.00 5.00 5.00 1.00 0.00 10.00 1.00 31.00	8652	Inside	4175.00 4180.00 4185.00 4190.00 4192.00 4192.00 4202.00 4203.00 4203.00 4203.00 4203.00 4213.00 4214.00 4245.00		Bot	Bottom Of Top Packet

10 m	RILOBITE	DRI	ILL STEM TEST REPC	RT	F	LUID SUMMARY
		Credo	Petroleum Corperation	Sandra	#1-3	
	ESTING , INC		Broadw ay #900 er, CO 80202	3-17s-29 Job Ticket	w Lane,KS	DST#:2
		ATTN	Bruce Ard		2011.08.29 @ 20:	
uhadil.					2011.00.20 @ 20.	·
	shion Information					
• •	el Chem		Cushion Type:	<i>L</i> ,	Oil API:	0 deg API
∕lud Weight: √iscosity:	9.00 lb/gal 70.00 sec/qt		Cushion Length: Cushion Volume:	ft bbl	Water Salinity:	0 ppm
Water Loss:	6.33 in ³		Gas Cushion Type:	laa		
Resistivity:	ohmm		Gas Cushion Pressure:	psig		
Salinity:	1300.00 ppm			paig		
Filter Cake:	1.00 inches					
Recovery In	formation					
			Recovery Table			
	Lengtl ft	n	Description	Volume bbl		
		80.00	gocm 5g 350 60m	0.3	93	
	<u> </u>	0.00	100ft GIP	0.0	00	
	Total Length:	80.	0.00ft Total Volume: 0.393	bbl		
	Num Fluid Sampl Laboratory Nam Recovery Comm	e:	Num Gas Bombs: 0 Laboratory Location:	Serial	#:	

-



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Ref. No: 43641

DST # 3



DRILL STEM TEST REPORT

Prepared For: Credo Petroleum Corperation

1801 Broadway #900 Denver, CO 80202

ATTN: Bruce Ard

3-17s-29w Lane,KS

Sandra #1-3

Start Date:	2011.08.30 @	14:05:00	
End Date:	2011.08.30 @ 3	21:03:45	
Job Ticket #:	43642	DST#:	3

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

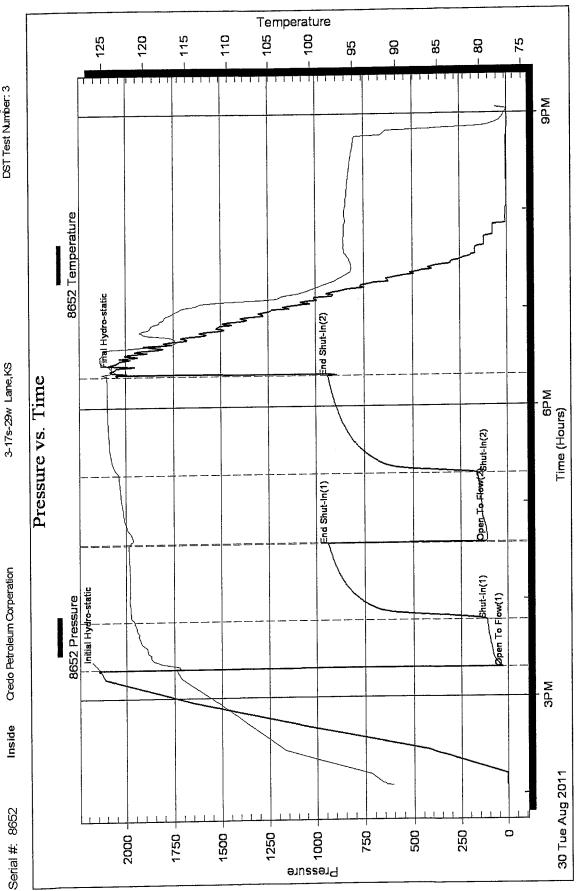
	DRILL STEM TES	ST REP	ORT	
RILOBITE	Credo Petroleum Corperation		Sandra	#1-3
ESTING , INC	1001 Dicuall ay 1000		3-17 s -29	w Lane,KS
	Denver, CO 80202		Job Ticket:	43642 DST#:3
	ATTN: Bruce Ard		Test Start:	2011.08.30 @ 14:05:00
GENERAL INFORMATION:	••••••••••••••••••••••••••••••••••••••			
Formation: LKC L-Marmaton Deviated: No Whipstock: Time Tool Opened: 15:17:45 Time Test Ended: 21:03:45	ft (KB)		Test Type: Tester: Unit No:	Conventional Bottom Hole Bradley Walter 40
Interval:4252.00 ft (KB) To4Total Depth:4200.00 ft (KB) (THole Diameter:7.88 inchesHo				Elevations: 2808.00 ft (KB) 2803.00 ft (CF) (B to GR/CF: 5.00 ft
Serial #: 8652InsidePress@RunDepth:156.77 psigStart Date:2011.08.30Start Time:14:05:05TEST COMMENT:IF: BOB @ 12 mISI:No return bloFF: BOB @ 12 m	End Date: End Time: inutes. w.	2011.08.30 21:03:44	Capacity: Last Calib.: Time On Btm Time Off Btm	8000.00 psig 2011.08.30 2011.08.30 @ 15:17:30 2011.08.30 @ 18:20:00
	arted @ 10 minutes	1	DRESS	URE SUMMARY
OCC Pressure 1000 Interview State 1700 Interview State <td>BSS Temperature BSS Temperature 125 130 140 140 140 140 150 150 150 150 150 150 150 15</td> <td>Time (Min.) 0 1 30 77 78 121 182 183</td> <td>Pressure (psig) Temp (deg 2136.44 29.26 115.5 111.17 121.2 936.49 121.5 121.66 121.6 156.77 123.0</td> <td>Annotation F) anitial Hydro-static by Open To Flow (1) characteristic char</td>	BSS Temperature BSS Temperature 125 130 140 140 140 140 150 150 150 150 150 150 150 15	Time (Min.) 0 1 30 77 78 121 182 183	Pressure (psig) Temp (deg 2136.44 29.26 115.5 111.17 121.2 936.49 121.5 121.66 121.6 156.77 123.0	Annotation F) anitial Hydro-static by Open To Flow (1) characteristic char
Recovery				Bas Rates
Length (ft) Description 400.00 GMCO 35g 20m 45o	4.50			e (inches) Pressure (psig) Gas Rate (Mcf/d)
0.00 530 GIP	0.00			
Trilobite Testing, Inc	Ref. No: 43642			nd: 2011.09.08 @ 13:33:23 Page 2

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RILOBI	ITE	DRII	LL STE	M TEST	REPOR	T	TOOL DIAGRAM
	IIE	Credo F	etroleum Corp	peration		Sandra #1-3	
ESTI	ING , INC		oadw ay #900 , CO 80202	0		3-17s-29w Lane,KS Job Ticket: 43642	DST#:3
		ATTN:	Bruce Ard			Test Start: 2011.08.30 (D 14:05:00
Tool Information							
Heavy Wt. Pipe: Length: Drill Collar: Length: Drill Pipe Above KB:	4109.00 ft 0.00 ft 122.00 ft 7.00 ft 4252.00 ft ft 76.00 ft 104.00 ft 2	Diameter:	0.00 ind 2.25 ind	ches Volume: ches Volume: ches Volume: Total Volume: ches	0.00 bbl 0.60 bbl	Tool Weight: Weight set on Packer Weight to Pull Loose: Tool Chased String Weight: Initial Final	
Fool Description	lo	nath (ft)	Serial No.	Position	Depth (ft) A	Accum. Lengths	
							=====
Change Over Sub		1.00			4225.00		,·,·,·,·,·,·,·
Change Over Sub Shut In Tool		1.00 5.00			4225.00 4230.00		
Change Over Sub Shut In Tool		1.00 5.00 5.00			4225.00 4230.00 4235.00		
Change Over Sub Shut In Tool Hydraulic tool		1.00 5.00 5.00 5.00			4225.00 4230.00 4235.00 4240.00		
Change Over Sub Shut In Tool Hydraulic tool Jars		1.00 5.00 5.00 5.00 2.00			4225.00 4230.00 4235.00 4240.00 4242.00		Bottom Of Top Packe
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint		1.00 5.00 5.00 5.00 2.00 5.00			4225.00 4230.00 4235.00 4240.00 4242.00 4247.00	28.00	Bottom Of Top Packe
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer		1.00 5.00 5.00 5.00 2.00 5.00 5.00			4225.00 4230.00 4235.00 4240.00 4242.00 4247.00 4252.00		Bottom Of Top Packe
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb		1.00 5.00 5.00 2.00 5.00 5.00 5.00 1.00			4225.00 4230.00 4235.00 4240.00 4242.00 4247.00 4252.00 4252.00 4253.00		Bottom Of Top Packe
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder		1.00 5.00 5.00 2.00 5.00 5.00 5.00 1.00 0.00	8652	Inside	4225.00 4230.00 4235.00 4240.00 4242.00 4247.00 4252.00 4253.00 4253.00		Bottom Of Top Packe
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder		1.00 5.00 5.00 2.00 5.00 5.00 1.00 0.00 0.00			4225.00 4230.00 4235.00 4240.00 4242.00 4247.00 4252.00 4253.00 4253.00 4253.00		Bottom Of Top Packe
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder		1.00 5.00 5.00 2.00 5.00 5.00 1.00 0.00 6.00	8652	Inside	4225.00 4230.00 4235.00 4240.00 4242.00 4247.00 4252.00 4253.00 4253.00 4253.00 4253.00 4253.00		Bottom Of Top Packe
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sub		1.00 5.00 5.00 2.00 5.00 5.00 5.00 1.00 0.00 6.00 1.00	8652	Inside	4225.00 4230.00 4235.00 4240.00 4242.00 4247.00 4252.00 4253.00 4253.00 4253.00 4253.00 4259.00 4259.00		Bottom Of Top Packe
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sub Drill Pipe		1.00 5.00 5.00 2.00 5.00 5.00 1.00 0.00 6.00 1.00 64.00	8652	Inside	4225.00 4230.00 4235.00 4240.00 4242.00 4247.00 4252.00 4253.00 4253.00 4253.00 4253.00 4259.00 4260.00 4324.00		Bottom Of Top Packe
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub		1.00 5.00 5.00 2.00 5.00 5.00 1.00 0.00 6.00 1.00 64.00 1.00	8652	Inside	4225.00 4230.00 4235.00 4240.00 4242.00 4247.00 4252.00 4253.00 4253.00 4253.00 4253.00 4253.00 4259.00 4260.00 4324.00 4325.00	28.00	
Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sub Drill Pipe		1.00 5.00 5.00 2.00 5.00 5.00 1.00 0.00 6.00 1.00 64.00	8652 8360	Inside	4225.00 4230.00 4235.00 4240.00 4242.00 4247.00 4252.00 4253.00 4253.00 4253.00 4253.00 4259.00 4260.00 4324.00	28.00	Bottom Of Top Packe

	TRILOBITE	DR	ILL STEM TEST REPOR	RT	FLI	UID SUMMARY
		Credo	Petroleum Corperation	Sandra #	<i>i</i> 1-3	
	ESTING , INC	1801 I	Broadw ay #900	3-17s-29w	v Lane,KS	
			er, CO 80202	Job Ticket:		ST#: 3
			Bruce Ard		2011.08.30 @ 14:05	
ub-all.						
	ushion Information					
ud Type: G			Cushion Type:		Oil API:	0 deg API
ud Weight: iscosity:	9.00 lb/gal 61.00 sec/qt		Cushion Length: Cushion Volume:	ft	Water Salinity:	0 ppm
ater Loss:	8.70 in ³		Gas Oushion Type:	bbl		
esistivity:	ohmm		Gas Cushion Pressure:	psig		
alinity:	3200.00 ppm			polg		
ter Cake:	1.00 inches					
ecovery In	formation					
			Recovery Table		-	
	Lengti ft	ר	Description	Volume bbl		
	4	100.00	GMCO 35g 20m 45o	4.500		
		0.00	530 GIP	0.000	2	
	Total Length:	400	.00ft Total Volume: 4.500 bb	1		
	Num Fluid Sample Laboratory Name		Num Gas Bombs: 0 Laboratory Location:	Serial #	•	:
	Recovery Comm					





Printed: 2011.09.08 @ 13:33:25 Page 5

Ref. No: 43642



DRILL STEM TEST REPORT

Prepared For: Credo Petroleum Corperation

1801 Broadway #900 Denver, CO 80202

ATTN: Bruce Ard

3-17s-29w Lane,KS

Sandra #1-3

2011.08.31 @ 08:40:05 Start Date: End Date: 2011.08.31 @ 15:09:59 Job Ticket #: 43643 DST#: 4

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

	DRILL STEM TES	ST REP	ORT			
RILOBITE	Credo Petroleum Corperation		Sand	ra #1-3		
ESTING , INC	1801 Broadw ay #900 Denver, CO 80202			-29w Lan	-	ГЦ. <i>А</i>
	ATTN: Bruce Ard			ket: 43643 art: 2011.0	الحل 8.31 @ 08:40:0	17#:4
ulterill.		. *				
GENERAL INFORMATION:						
Formation: Marmaton / Pawne Deviated: No Whipstock: Time Tool Opened: 10:23:45 Time Test Ended: 15:09:59	e ft (KB)		Test Ty Tester: Unit No	Will M	entional Bottom lacLean	ı Hole
Interval:4324.00 ft (KB) To44Total Depth:4408.00 ft (KB) (T\Hole Diameter:7.88 inches Hole	/D)		Refere	nce Bevatio KB to GR	2803	.00 ft (KB) .00 ft (CF) .00 ft
Serial #: 8652 Inside Press@RunDepth: 33.06 psig Start Date: 2011.08.31 Start Time: 08:40:05 TEST COMMENT: IF-Surface Blow	End Date: End Time:	2011.08.31 15:09:59	Capacity: Last Calib.: Time On Btm Time Off Btn		8000 2011.08 08.31 @ 10:23 08.31 @ 13:28	:15
ISI- No Blow FF- No Blow FSI- No Blow FSI- No Blow Pressure vs. Ti		1	DDE		UMMARY	
8852 Pressure	052 Temperature	Time			notation	
	120	(Min.) 0		leg F) 18 20 Initia	l Hydro-static	
2000	- 115	1			n To Flow (1)	
1500	110	47			-ln(1)	
		92 92			Shut-In(1) n To Flow (2)	
		124		20.17 Shut		
	- so	185 185		20.94 End 22.30 Final	Shut-In(2) Hydro-static	
500 200 0 0 0 0 0 0 0 0 0 0 0 0						
Recovery				Gas Rat	es	
Length (ft) Description	Volume (bbl)			Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
15.00 Mud with Oil Spots	0.07					
	·					
	<u></u>					
Trilobite Testing, Inc	Ref. No: 43643		Pr	inted: 2011.	09.08 @ 13:33:	44 Page 2

Trilobite Testing, Inc

Printed: 2011.09.08 @ 13:33:44 Page 2

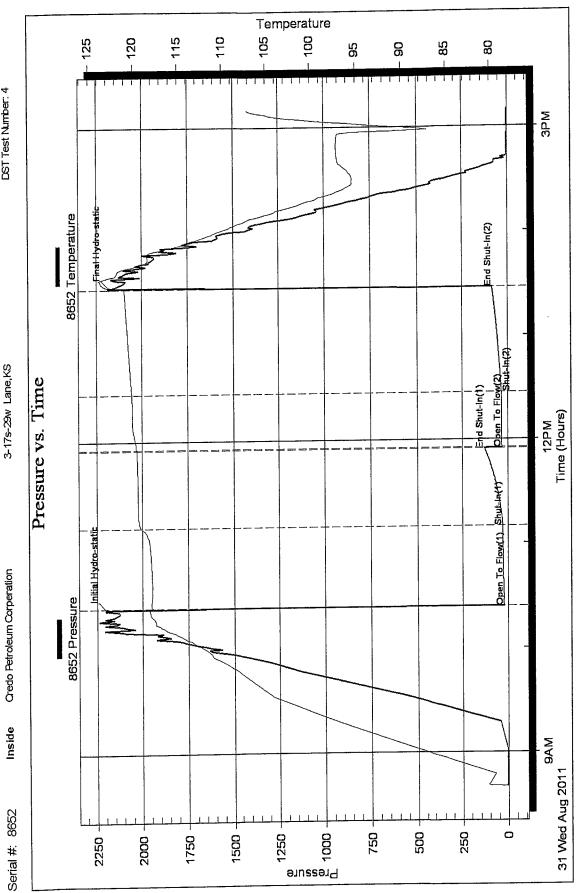
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RILOB	ITF 🗍			MTEST			TOOL DIAGRA
		Credo F	Petroleum Cor	peration		Sandra #1-3	
ESI ESI	ING , INC	1801 B	roadw ay #90	C		3-17s-29w Lane,KS	3 - ²
			, CD 80202			Job Ticket: 43643	DST#:4
		ATTN:	Bruce Ard			Test Start: 2011.08.31	@ 08:40:05
ool Information							
rill Pipe: Length:	4144.00 ft	Diameter:	3.80 ind	ches Volume:	58.13 bbl		2000.00 lb
leavy Wt. Pipe: Length:	0.00 ft	Diameter:	0.00 ind	ches Volume:	0.00 bbl		
Fill Collar: Length:	184.00 ft	Diameter:	2.25 in	ches Volume:	0.90 bbl	-	
	32.00 ft			Total Volume:	59.03 bb		ft 64000.00 lb
Fill Pipe Above KB: Depth to Top Packer:	4324.00 ft					String Weight: Initial Final	64000.00 lb
Depth to Bottom Packer:	-02-4.00 ft						04000.0010
nterval between Packers:	84.00 ft						
fool Length:	112.00 ft						
lumber of Packers:	2	Diameter:	6.75 in	ches			
Tool Comments:							
Fool Description	Lei	ngth (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub		1.00			4297.00		
Shut In Tool		5.00			4302.00		
lydraulic tool		5.00			4307.00		
lars		5.00			4312.00		
Safety Joint		2.00			4314.00	00.00	Bottom Of Top Packe
Packer		5.00			4319.00	28.00	Bottom Or Top Packe
Packer		5.00			4324.00		
Stubb		1.00			4325.00		
Recorder		0.00	8652	Inside	4325.00		
Recorder		0.00	8360	Outside	4325.00 4340.00		
Perforations		15.00					
Change Over Sub		1.00			4341.00		
Drill Pipe		63.00			4404.00 4405.00		
Change Over Sub		1.00				84.00 E	ottom Packers & Anchor
Bullnose		3.00			4408.00	04.00 D	
Total Tool	Length:	112.00					

-

		DRIL	L STEM TES	ST R	EPOR	Г		FLUID	SUMMAR
		Credo Pa	etroleum Corperation			Sandra #	1-3		
EST/	ITE ING , INC	180 1 Bro	oadw ay #900			3-17 s -29w	Lane,KS		
			00 80202			Job Ticket: 4		DST#:4	4
		ATTN	Bruce Ard			Test Start: 2	2011.08.31 @	08:40:05	
Mud and Cushion Info	ormation	<u></u>							
Mud Type: Gel Chem			Cushion Type:				Oil API:		deg API
Vlud Weight: 9.00 lb	-		Cushion Length			ft	Water Salini	ty:	ppm
Viscosity: 52.00 s			Cushion Volume			bbl			
Nater Loss: 8.31 in Resistivity: ol	r hmm		Gas Cushion Ty Gas Cushion Pr			noia			
Salinity: 3700.00 p			Gas Cushion H	essure.		psig			
Filter Cake: 1.00 in									
Recovery Information									
ſ		<u> </u>	Recovery Tab	le		N/stars	T		
Î	Lengtl ft		Description			Voiume bbl	ļ		
Ļ		15.00	Vud with Oil Spots			0.074	<u>I</u>		
Tota	al Length:	15.0	0ft Total Volume	:	0.074 bbl				
	n Fluid Sampl		Num Gas Bo		0	Serial #	:		
	oratory Nam overy Comm		Laboratory L	ocation					
									-
Trilobite Testing, Inc	. <u></u>		No: 43643				2011.09.08 (

DST Test Number: 4



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Ref. No: 43643

DST # 5



DRILL STEM TEST REPORT

Prepared For: Credo Petroleum Corperation

1801 Broadway #900 Denver, CO 80202

ATTN: Bruce Ard

3-17s-29w Lane,KS

Sandra #1-3

Start Date: 2011.09.01 @ 02:22:05 End Date: 2011.09.01 @ 09:59:44 Job Ticket #: 43644 DST#: 5

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

RILOBITE	DRILL STEM TES	ST REP	ORT				
And	Credo Petroleum Corperation	<u> </u>	Sa	ndra #1	-3		
ESTING , INC	1801 Broadw ay #900 Denver, CO 80202			1 7s-29w Ticket: 4	Lane,KS	; DST	·#· 5
	ATTN: Bruce Ard				011.09.01 (
GENERAL INFORMATION:							
Formation:Ft Scott - Upper ChDeviated:NoTime Tool Opened:04:34:00Time Test Ended:09:59:44	e ft (KB)		Tes	iter:	Conventior Will MacLea 40		Hole
Interval:4406.00 ft (KB) To44Total Depth:4200.00 ft (KB) (THole Diameter:7.88 inchesHole			Ref	erence Ba	evations: to GR/CF:	2803.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8652 Inside Press@RunDepth: 315.35 psig Start Date: 2011.09.01 Start Time: 02:22:05	@ 4412.00 ft (KB) End Date: End Time:	2011.09.01 09:59:44	Capacity Last Cali Time On Time Off	b.: Btm	2011.09.01 2011.09.01	2011.09.0 @ 04:33:4	45
TEST COMMENT: IF- BOB in 18 min ISI- No Blow FF- Surface Blow FSI- No Blow	n v Built to 1" Died to Weak Surface I	Blow					
Pressure vs. I			PF	RESSUF	RE SUMM	IARY	,,,,
1 200 4002 Presue 4002 Presue 4000 4 4000 4 400	660 Terry and 130 130 125 130 125 130 125 130 125 130 125 130 125 130 155 150 155 150 155 150 155 150 155 155	Time (Min.) 0 1 31 76 76 137 196 197	Pressure (psig) 2193.22 30.95 166.62 972.95 172.70 315.35 886.74 2151.72	119.29 128.75 128.13 127.92 132.19		ro-static Flow (1) In(1) Flow (2)_ In(2)	
Recovery				Gas	s Rates		
Length (ft) Description	Volume (bbl)			Choke (in	nches) Pressu	re (psig)	Gas Rate (Mcf/d)
120.00 1% oil 40%m 59%w	0.59						
190.00 1%oil 4%g 15%w 80%i 330.00 2%oil 5%g 93%m	n 2.08 4.63						
0.00 12% OI 5% g 93% m 0.00 120' GIP	0.00						
	Ref. No: 43644)5 Page 2

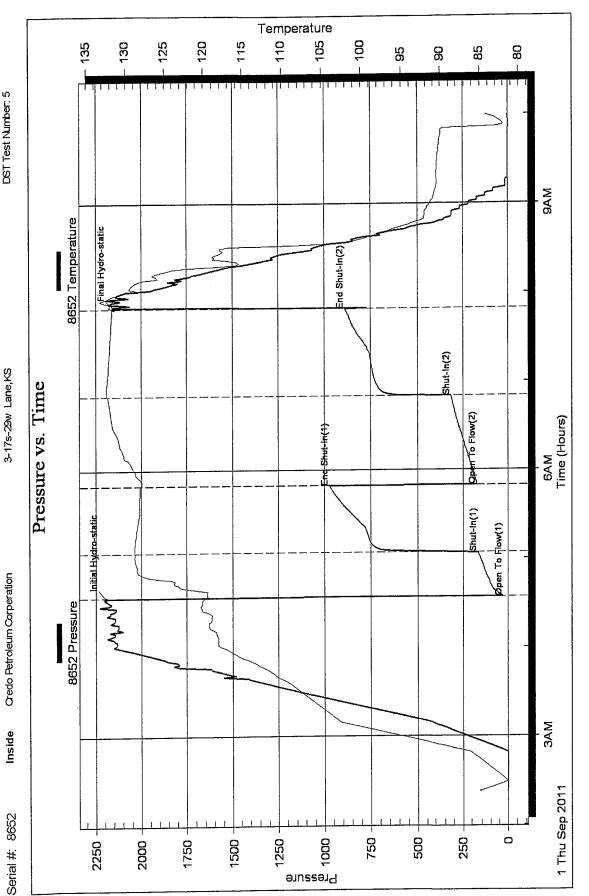
Trilobite Testing, Inc

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	TC	DRII	L STE	MTEST	REPOF	RT	TOOL DIAGRAM
RILOBI		Credo P	etroleum Cor	peration		Sandra #1-3	
ESTI	NG , INC	1801 Br	oadw ay #90	0		3-17s-29w Lane,KS	
			CO 80202			Job Ticket: 43644	DST#:5
		ATTN:	Bruce Ard			Test Start: 2011.09.01 @	02:22:05
Tool Information							
	4212.00 ft	Diameter:	3.80 in	ches Volume:	59.08 bbl	Tool Weight:	2000.00 lb
Crill Pipe: Length: 4 Heavy Wt. Pipe: Length:		Diameter:		ches Volume:	0.00 bbl	Weight set on Packer	: 24000.00 lb
Drill Collar: Length:	184.00 ft			ches Volume:	0.90 bbl	Weight to Pull Loose:	20000.00 lb
	104.0010	Diantorent	-	Total Volume:	59.98 bbl	Tool Chased	ft
Drill Pipe Above KB:	18.00 ft					String Weight: Initial	64000.00 lb
Depth to Top Packer:	4406.00 ft					Final	66000.00 lb
Depth to Bottom Packer:	ft						
nterval between Packers:	73.00 ft						
Tool Length:	101.00 ft						
Number of Packers:	2	Diameter:	6.75 in	ches			
Tool Comments:							
	Lo	nath (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Tool Description		1.00	Ocharito.		4379.00		
Change Over Sub		5.00			4384.00		
Shut In Tool					4389.00		
Hydraulic tool		5.00			4394.00		
town		5.00			4394.00		
Jars					1000.00		
		2.00			4396.00	22 22	Rettorn Of Top Proke
Safety Joint					4401.00	28.00	Bottom Of Top Packer
Safety Joint Packer		2.00			4401.00 4406.00	28.00	Bottom Of Top Packer
Safety Joint Packer Packer		2.00 5.00			4401.00 4406.00 4407.00	28.00	Bottom Of Top Packer
Safety Joint Packer Packer Stubb		2.00 5.00 5.00			4401.00 4406.00 4407.00 4411.00	28.00	Bottom Of Top Packe
Safety Joint Packer Packer Stubb Perforations		2.00 5.00 5.00 1.00			4401.00 4406.00 4407.00	28.00	Bottom Of Top Packer
Safety Joint Packer Packer Stubb Perforations Change Over Sub		2.00 5.00 5.00 1.00 4.00	8652	Inside	4401.00 4406.00 4407.00 4411.00	28.00	Bottom Of Top Packer
Safety Joint Packer Packer Stubb Perforations Change Over Sub Recorder		2.00 5.00 5.00 1.00 4.00 1.00 0.00	8652 8360	Inside Outside	4401.00 4406.00 4407.00 4411.00 4412.00	28.00	Bottom Of Top Packer
Safety Joint Packer Packer Stubb Perforations Change Over Sub Recorder Recorder		2.00 5.00 1.00 4.00 1.00 0.00 0.00			4401.00 4406.00 4407.00 4411.00 4412.00 4412.00	28.00	Bottom Of Top Packer
Jars Safety Joint Packer Packer Stubb Perforations Change Over Sub Recorder Recorder Drill Fipe Change Over Sub		2.00 5.00 1.00 4.00 1.00 0.00 0.00 63.00			4401.00 4406.00 4407.00 4411.00 4412.00 4412.00 4412.00	28.00	Bottom Of Top Packe
Safety Joint Packer Packer Stubb Perforations Change Over Sub Recorder Recorder Drill Fipe Change Over Sub		2.00 5.00 1.00 4.00 1.00 0.00 0.00 63.00 1.00			4401.00 4406.00 4407.00 4411.00 4412.00 4412.00 4412.00 4475.00		
Safety Joint Packer Packer Stubb Perforations Change Over Sub Recorder Recorder Drill Pipe Change Over Sub Bullnose	Longth	2.00 5.00 1.00 4.00 1.00 0.00 0.00 63.00 1.00 3.00			4401.00 4406.00 4407.00 4411.00 4412.00 4412.00 4412.00 4475.00 4475.00		
Safety Joint Packer Packer Stubb Perforations Change Over Sub Recorder Recorder Drill Fipe Change Over Sub	Length:	2.00 5.00 1.00 4.00 1.00 0.00 0.00 63.00 1.00			4401.00 4406.00 4407.00 4411.00 4412.00 4412.00 4412.00 4475.00 4475.00		
Safety Joint Packer Packer Stubb Perforations Change Over Sub Recorder Recorder Drill Pipe Change Over Sub Bullnose	Length:	2.00 5.00 1.00 4.00 1.00 0.00 0.00 63.00 1.00 3.00			4401.00 4406.00 4407.00 4411.00 4412.00 4412.00 4412.00 4475.00 4475.00		Bottom Of Top Packer
Safety Joint Packer Packer Stubb Perforations Change Over Sub Recorder Recorder Drill Pipe Change Over Sub Bullnose	Length:	2.00 5.00 1.00 4.00 1.00 0.00 0.00 63.00 1.00 3.00			4401.00 4406.00 4407.00 4411.00 4412.00 4412.00 4412.00 4475.00 4475.00		
Safety Joint Packer Packer Stubb Perforations Change Over Sub Recorder Recorder Drill Pipe Change Over Sub Bullnose	Length:	2.00 5.00 1.00 4.00 1.00 0.00 0.00 63.00 1.00 3.00			4401.00 4406.00 4407.00 4411.00 4412.00 4412.00 4412.00 4475.00 4475.00		
Safety Joint Packer Packer Stubb Perforations Change Over Sub Recorder Recorder Drill Pipe Change Over Sub Bullnose	Length:	2.00 5.00 1.00 4.00 1.00 0.00 0.00 63.00 1.00 3.00			4401.00 4406.00 4407.00 4411.00 4412.00 4412.00 4412.00 4475.00 4475.00		
Safety Joint Packer Packer Stubb Perforations Change Over Sub Recorder Recorder Drill Pipe Change Over Sub Bullnose	Length:	2.00 5.00 1.00 4.00 1.00 0.00 0.00 63.00 1.00 3.00			4401.00 4406.00 4407.00 4411.00 4412.00 4412.00 4412.00 4475.00 4475.00		
Safety Joint Packer Packer Stubb Perforations Change Over Sub Recorder Recorder Drill Pipe Change Over Sub Bullnose	Length:	2.00 5.00 1.00 4.00 1.00 0.00 0.00 63.00 1.00 3.00			4401.00 4406.00 4407.00 4411.00 4412.00 4412.00 4412.00 4475.00 4475.00		
Safety Joint Packer Packer Stubb Perforations Change Over Sub Recorder Recorder Drill Pipe Change Over Sub Bullnose	Length:	2.00 5.00 1.00 4.00 1.00 0.00 0.00 63.00 1.00 3.00			4401.00 4406.00 4407.00 4411.00 4412.00 4412.00 4412.00 4475.00 4475.00		

RILOB		ILL STEM TEST REPO	KI	F	LUID SUMMAR		
		Petroleum Corperation	Sandra	#1-3			
		Broadw ay #900 er, CO 80202		3-17s-29w Lane,KS Job Ticket: 43644 DST#:5			
	ATTN	Bruce Ard	•	2011.09.01 @ 02:2			
Mud and Cushion Info	rmation			<u></u>			
Mud Type: Gel Chem		Cushion Type:		Oil API:	deg API		
Mud Weight: 9.00 lb)/gal	Cushion Length:	ft	Water Salinity:	4600 ppm		
Viscosity: 52.00 se	ec/qt	Cushion Volume:	bbl				
Water Loss: 8.31 in	13	Gas Cushion Type:					
Resistivity: ol	hmm	Gas Cushion Pressure:	psig				
Salinity: 3700.00 p	pm	· ·					
Filter Cake: 1.00 in	ches	•			······································		
Recovery Information		.	•				
r		Recovery Table		-			
	Length ft	Description	Volume bbl				
	120.00	1% oil 40%m 59%w	0.59	0			
	190.00	1%oil 4%g 15%w 80%m	2.08				
[330.00	2%oil 5%g 93%m	4.62	-			
	0.00	120' GIP	0.00				
Tota	al Length: 640	0.00ft Total Volume: 7.301 b	bl				
Num	n Fluid Samples: 0	Num Gas Bombs: 0	Serial #	ŧ			
	oratory Name:	Laboratory Location:					
Reco	overy Comments: R	/V is 1. @ 87f= 4600					

DST Test Number: 5



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Ref. No: 43644



DRILL STEM TEST REPORT

Prepared For:

Credo Petroleum Corperation

1801 Broadway #900 Denver, CO 80202

ATTN: Bruce Ard

3-17s-29w Lane,KS

Sandra #1-3

Start Date:	2011.09.01 (@ 20:17:05	
End Date:	2011.09.02 @	@ 04:10:59	
Job Ticket #:	43645	DST#:	6

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

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		DRILL STEM TE	ST REP	ORT		<u></u>	
	BITE –	Credo Petroleum Corperation		Sand	lra #1-3		
	TING , INC	1801 Broadw ay #900		3-17s	-29w La	ne,KS	
		Denver, CO 80202		Job Tic	cket: 4364	5 DS	ST#: 6
		ATTN: Bruce Ard		Test S	tart: 2011.	09.01 @ _. 20:17:	05
GENERAL INFORMA					· · · · ·		
Formation:LoweDeviated:NoTime Tool Openet:22:23:Time Test Ended:04:10:		oh ft (KB)		Test Ty Tester: Unit No	: 1/1/11	ventional Bottor MacLean	n Hole
Total Depth: 4531	f t (KB) To 4531 .00 ft (KB) (TVD) .88 inchesHole C			Refere	ence ⊟evat KB to G	2803	8.00 ft (KB) 3.00 ft (CF) 5.00 ft
Press@RunDepth: Start Date: Start Time:	Inside 170.80 psig @ 2011.09.01 20:17:05	4481.00 ft (KB) End Date: End Time:	2011.09.02 04:10:59	Capacity: Last Calib.: Time On Btn Time Off Btn		8000 2011.05 1.09.01 @ 22:23 1.09.02 @ 01:27	3:15
FF	I- Surface Blow E ≂ BOB in 10 min	Built to 1/2" Died in 19min Built to 3 1/4" Died Back to 1 1/4	4"				
6662 Pressure	Pressure vs. Time				· · · · ·	SUMMARY	
	2 fd Time (Heurs)	155 160 160 160 160 160 160 160 160		(psig) (d 2270.76 1 27.26 1 105.28 1 979.10 1 110.88 1 170.80 1 963.40 1	leg F) Initi 22.38 Initi 21.50 Op 26.81 Shi 29.36 Enc 29.19 Op 32.09 Shi 31.54 Enc	nnotation al Hydro-static en To Flow (1) ut-ln(1) d Shut-ln(1) en To Flow (2) ut-ln(2) d Shut-ln(2) al Hydro-static	
	Recovery				Gas Ra	ates	
Length (ft)	Description	Volume (bbl)			Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
	1%g 70%m	0.31					
122.00 25%g 30%		0.61					
125.00 30%g 30% 170.00 30%g 70%		2.38					
0.00 800' GIP		0.00					
Trilobite Testing, Inc		Ref. No: 43645			intod: 2011	.09.08 @ 13 [.] 31	

Trilobite Testing, Inc

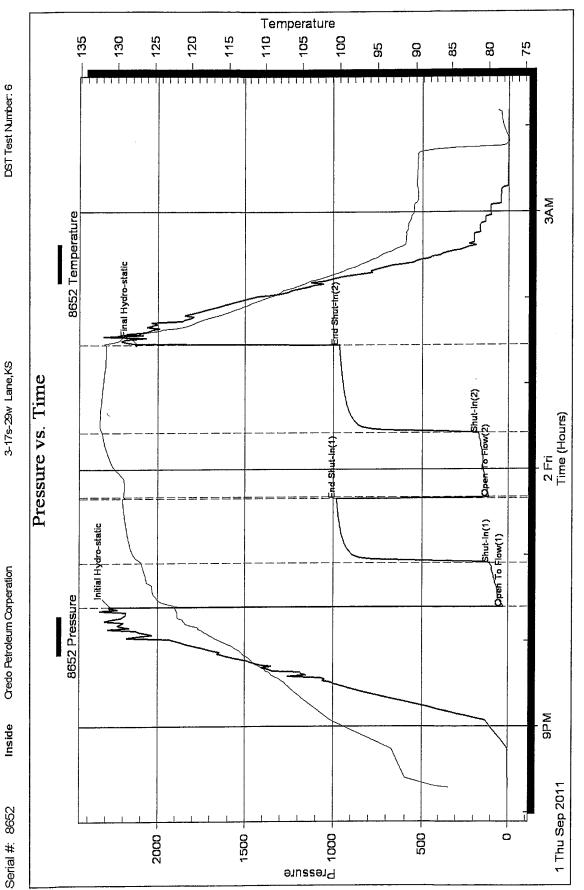
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	ח וום	NTE				REPOR			
	RILOE		Credo F	Petroleum Cor	peration		Sandra #1-3		
	 ES1	TING , INC		roadw ay #90 , CO 80202	0		3-17s-29w Lan Job Ticket: 43645	•	DST#:6
			ATTN:	Bruce Ard			Test Start: 2011.0		
Tool Informatio	on								
Drill Pipe:	Lenath:	4271.00 ft	Diameter:	3.80 in	ches Volume:	59.91 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe:			Diameter:		ches Volume:	0.00 bbl	Weight set on F		
Drill Collar:	Length:	184.00 ft	Diameter:		ches Volume:		Weight to Pull L	.oose:	
	-	0.007		-	Total Volume:	60.81 bbl	Tool Chased		ft
Drill Pipe Above I		3.00 ft					String Weight:		64000.00 lb
Depth to Top Pac		4480.00 ft ft						Final	68000.00 lb
Depth to Bottom I Interval between		51.00 ft							
Tool Length:	I duncis.	79.00 ft							
Number of Packe	ers:	2	Diameter:	6.75 in	ches				
		-		5.7 € 11					
Tool Comments:							Access I constitue		
Tool Descriptio		Le	<u> </u>	Serial No.	Position		Accum. Lengths	,	
Tool Descriptic Change Over Sul		Le	1.00	Serial No.	Position	4453.00	Accum. Lengths		
Tool Descriptio Change Over Sul Shut In Tool		Le		Serial No.	Position		Accum. Lengths		
Tool Descriptic Change Over Sul Shut In Tool Hydraulic tool		Le	1.00 5.00	Serial No.	Position	4453.00 4458.00	Accum. Lengths		
Tool Descriptio Change Over Sul Shut In Tool Hydraulic tool Jars		Le	1.00 5.00 5.00	Serial No.	Position	4453.00 4458.00 4463.00	Accum. Lengths		
Tool Descriptio Change Over Sul Shut In Tool Hydraulic tool Jars		Le	1.00 5.00 5.00 5.00	Serial No.	Position	4453.00 4458.00 4463.00 4468.00	Accum. Lengths 28.00		Bottom Of Top Pack
Tool Descriptic Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer		Le	1.00 5.00 5.00 5.00 2.00	Serial No.	Position	4453.00 4458.00 4463.00 4468.00 4470.00			Bottom Of Top Pack
Tool Descriptio Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint		Le	1.00 5.00 5.00 5.00 2.00 5.00	Serial No.	Position	4453.00 4458.00 4463.00 4468.00 4470.00 4475.00			Bottom Of Top Pack
Tool Descriptic Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer		Le	1.00 5.00 5.00 5.00 2.00 5.00 5.00	Serial No. 8652	Position	4453.00 4458.00 4463.00 4468.00 4470.00 4475.00 4480.00			Bottom Of Top Pack
Tool Descriptio Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb		Le	1.00 5.00 5.00 5.00 2.00 5.00 5.00 1.00			4453.00 4458.00 4463.00 4468.00 4470.00 4475.00 4480.00 4480.00			Bottom Of Top Pack
Tool Descriptic Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder		Le	1.00 5.00 5.00 5.00 2.00 5.00 5.00 5.00 1.00 0.00	8652	Inside	4453.00 4458.00 4468.00 4468.00 4470.00 4475.00 4480.00 4481.00 4481.00 4481.00 4481.00			Bottom Of Top Pack
Tool Description Change Over Sult Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations	b	Le	1.00 5.00 5.00 2.00 5.00 5.00 1.00 0.00 0.00	8652	Inside	4453.00 4458.00 4463.00 4468.00 4470.00 4475.00 4480.00 4481.00 4481.00 4481.00			Bottom Of Top Pack
Tool Descriptic Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sul	b	Le	1.00 5.00 5.00 2.00 5.00 5.00 5.00 1.00 0.00 0.00 13.00	8652	Inside	4453.00 4458.00 4468.00 4468.00 4470.00 4475.00 4480.00 4481.00 4481.00 4481.00 4481.00			Bottom Of Top Pack
Tool Descriptic Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations	b	Le	1.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	8652	Inside	4453.00 4458.00 4463.00 4468.00 4470.00 4470.00 4475.00 4481.00 4481.00 4481.00 4481.00 4481.00 4495.00 4527.00 4528.00	28.00		
Tool Descriptic Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sul Drill Pipe	b	Le	1.00 5.00 5.00 5.00 5.00 5.00 5.00 1.00 0.00 13.00 1.00 32.00	8652	Inside	4453.00 4458.00 4468.00 4468.00 4470.00 4475.00 4480.00 4481.00 4481.00 4481.00 4481.00 4495.00 4495.00			Bottom Of Top Pack

<i>¶. (</i>)- 4 *)11 – J	RILOBITE		DRILL STEM TEST REPORT					UMMAR
TESTING, INC		Credo	Credo Petroleum Corperation			-3		
			Broadw ay #900 r, CO 80202		3-17s-29w Job Ticket: 4		DST#:6	
		ATTN:	Bruce Ard			011.09.01 @ 20		
Mud and Cu	shion Information							
Mud Type: Ge	el Chem		Cushion Type:			Oil API:		deg API
Mud Weight:	9.00 lb/gal		Cushion Length:		ft	Water Salinity:		ppm
/iscosity:	48.00 sec/qt		Cushion Volume:		bbl			
Nater Loss:	9.15 in ³		Gas Cushion Type.					
Resistivity: Salinity:	ohm.m 2600.00 ppm		Gas Cushion Pressure:		psig			
Filter Cake:	1.00 inches							
Recovery Inf	formation						,	
	r		Recovery Table					
	Leng ft	th	Description		Volume bbl			
		63.00	10% oil 20%g 70%m		0.310			
		122.00	25%g 30%oil 45%m		0.609			
		125.00	30%g 30%m 40%oil		1.753			
		170.00 0.00	30%g 70%oil 800' GIP		2.385 0.000			
	L Total Length:			5.057 bbl	0.000			
	Num Fluid Samp	les: 0	Num Gas Bombs: 0		Serial #:			
	Laboratory Nam		Laboratory Location: 1 is 40 @ 80f = 38					
	recovery com							

DST Test Number: 6



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Ref. No: 43645

ALLIED CEMENTING	TING CO., LLC. 037349
REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665	.# 20-39/3804 SERVICE POINT:
DATE 8-24-11 SEC. TWP. RANGE CA	CALLED OUT ON LOCATION JOB START JOB FINISH
LEASE Sander WELL# 1-3 LOCATION Handy KS OLD OR NEW (Circle one) 3/4 west that	MZSN-KUWEST COUNTY STATE
CONTRACTOR WW Orilling 19 #10	OWNER (redo-
12.Ky 8%4	CEMENT AMOUNT ORDERED 160 5x 200 3% ce 2/2
The DEPTH	
DEPTH	14.00
MEAS. LINE SHOE JOINT	POZMIX @
CEMENT LEFT IN CSG. /S f f	× 03
DISPLACEMENT Kesh water	
EQUIPMENT	9 0
PUMP TRUCK CEMENTER Set &	
HILK TRUCK HELPER king	© ©
# 341 DRIVER Jacob	9 9 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1
# DRIVER	
	MILEAGE US
REMARKS:	TOTAL
My 100 5× Com 3 You 290	SERVICE
the becauter and put in	DEPTH OF JOB ZGO
Converse did circulate	PUMP TRUCK CHARGE
	MANIFOLD @@
CHARGE TO: Credo	
STREET	TOTAL
CITYSTATEZIP	PLUG & FLOAT EOUIPMENT
	@@@@@@
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	TOTAL
contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.	SALES TAX (If Any)
	TOTAL CHARGES
PRINTED NAME / Read to KAR IS	DISCOUNT IF PAID IN 30 DAY
SIGNATURE + MAC M	τ.

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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. PRINTED NAME Don Guy SIGNATURE Don Guy	STATE TALE ZIP	LILU CENENT Federal Tax I.D.# REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665 Federal Tax I.D.# DATE Q 1 1 SEC TWP. RANGE CALL DATE Q 1 1 SEC TOOL OR KEW Circle one) LOCATION TYPE OF JOB PARA AND AND AND AND AND AND AND AND AND AN
OU Tree I (1) Construction Construct Interviewent (2) Construction Construct Intervi	Theoring for the set of the set	NTING CO., LLC. 035976 D# 20-5975804 D# 20-5975804 SERVICE POINT CALLED OUT ON LOCATION ON LOCATION ON LOCATION ON ON TO NOT ON LOCATION OWNER OWNER OWNER CEMENT AMOUNT OR DERED 160 SK, 452 Icrosser 200 OVINTY STATE OWNER OW

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