

Kansas Corporation Commission Oil & Gas Conservation Division

1058785

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:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
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 Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	Amount of Surface Pipe Set and Cemented at: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet If Alternate II completion, cement circulated from: sx cmt
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Original Total Depth: Conv. to ENHR	Chloride content: ppm Fluid volume: bbls Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	QuarterSec TwpS. R East West
ENHR Permit #:	County: Permit #:
GSW Permit #:	
Spud Date or Date Reached TD Completion Date or 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 Approved by: Date:						

Side Two



Operator Name:			Lease Name: _			Well #:	
Sec Twp	S. R	East West	County:				
time tool open and clo	osed, flowing and shu es if gas to surface te	d base of formations pen t-in pressures, whether s st, along with final chart(s well site report.	hut-in pressure read	ched static level,	hydrostatic press	ures, bottom h	ole temperature, fluid
Drill Stem Tests Taker (Attach Additional		Yes No		og Formation	n (Top), Depth an	d Datum	Sample
Samples Sent to Geo	logical Survey	☐ Yes ☐ No	Nam	е		Тор	Datum
Cores Taken Electric Log Run Electric Log Submitte (If no, Submit Copy	d Electronically	Yes No Yes No Yes No					
List All E. Logs Run:							
		Report all strings set-		ermediate, producti		T 2 .	
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 / SQL	JEEZE RECORD	I		
Purpose: —— Perforate —— Protect Casing —— Plug Back TD	Depth Top Bottom	Type of Cement	# Sacks Used	sed Type and Percent Additives			
Plug Off Zone							
Shots Per Foot		DN RECORD - Bridge Plug Footage of Each Interval Perf			cture, Shot, Cement mount and Kind of Ma		d Depth
	<u> </u>						
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No		
Date of First, Resumed	Production, SWD or EN	HR. Producing Meth		Gas Lift C	other (Explain)		
Estimated Production Per 24 Hours	Oil I	Bbls. Gas	Mcf Wat	er Bl	ols. G	Sas-Oil Ratio	Gravity
DISPOSITI	ON OF GAS:	N	METHOD OF COMPLE	ETION:		PRODUCTIO	ON INTERVAL:
Vented Solo	Used on Lease	Open Hole	Perf. Dually		nmingled mit ACO-4)		
(If vented, Su	bmit ACO-18.)	Other (Specify)	(Odbillit)	, (Gubi			

Form	ACO1 - Well Completion
Operator	Credo Petroleum Corporation
Well Name	HOLLAMON 1-34
Doc ID	1058785

All Electric Logs Run

DUAL POROSITY
DUAL INDUCTION
MICRORESISTIVITY
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/

Sam Brownback, Governor

Mark Sievers, Chairman Ward Loyd, Commissioner Thomas E. Wright, Commissioner

June 30, 2011

JACK RENFRO Credo Petroleum Corporation 1801 BROADWAY # 900 DENVER, CO 80202-3858

Re: ACO1 API 15-101-22284-00-00 HOLLAMON 1-34 SE/4 Sec.34-16S-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



Prepared For:

Credo Petroleum Corp.

1801 Broadway #900 Denver Co. 80202

ATTN: Bruce Ard

34-16s-29w Lane,KS

Holloman 1-34

Start Date: 2011.03.14 @ 23:18:15 End Date: 2011.03.15 @ 06:36:00

2010 2010. 2011.00.10 @ 00.00.00

Job Ticket #: 042152 DST#: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



Credo Petroleum Corp.

Holloman 1-34

1801 Broadw ay #900 Denver Co. 80202

Job Ticket: 042152

34-16s-29w Lane,KS

DST#: 1

ATTN: Bruce Ard

Test Start: 2011.03.14 @ 23:18:15

GENERAL INFORMATION:

Time Tool Opened: 01:34:00

Time Test Ended: 06:36:00

Formation:

K- Marmaton

Deviated:

Interval:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole

Tester:

Mike Roberts

Unit No:

Reference Elevations:

2807.00 ft (KB)

2802.00 ft (CF)

Total Depth: Hole Diameter: 4336.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair

4219.00 ft (KB) To 4336.00 ft (KB) (TVD)

KB to GR/CF:

5.00 ft

Serial #: 6669

Press@RunDepth:

Outside

107.69 psig @

4331.00 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time:

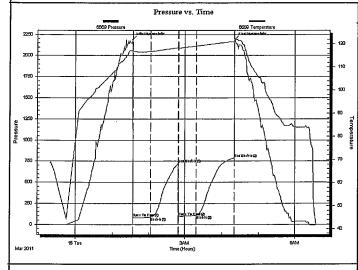
2011.03.14 23:18:15 End Date: End Time: 2011.03.15 06:36:00 Last Calib.: Time On Btm: 2011.03.15

Time Off Btm:

2011.03.15 @ 01:33:15 2011.03.15 @ 04:20:45

TEST COMMENT: IF:Built to 1" blow

IS:No return blow FF:Built to 2" blow FS:no return blow



PRESSURE SUMMARY						
Time	Pressure	Temp	Annotation			
(Min.)	(psig)	(deg F)				
0	2190.00	117.12	Initial Hydro-static			
1	82.45	116.88	Open To Flow (1)			
30	87.61	116.76	Shut-In(1)			
76	722.12	118.42	End Shut-In(1)			
77	95.88	118.25	Open To Flow (2)			
105	107.69	119.14	Shut-In(2)			
167	787.12	121.07	End Shut-in(2)			
168	2191.34	121.79	Final Hydro-static			
	1					

Recovery

Description	Volume (bbl)
gcom 5%g 5%o 90% m	0.34

Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc.

Ref. No: 042152

Printed: 2011.03.31 @ 21:42:25 Page 2



TOOL DIAGRAM

Credo Petroleum Corp.

Holloman 1-34

1801 Broadw ay #900 Denver Co. 80202

34-16s-29w Lane, KS Job Ticket: 042152

DST#:1

ATTN: Bruce Ard

Test Start: 2011.03.14 @ 23:18:15

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Drill Collar:

Length: 4097.00 ft Diameter: Length:

0.00 ft Diameter: 122.00 ft Diameter:

3.80 inches Volume: 0.00 inches Volume: 2.25 inches Volume:

57.47 bbl 1dd 00.0 0.60 bbl

Tool Weight: Weight set on Packer: 20000.00 ib

1500.00 lb Weight to Pull Loose: 60000.00 lb

Drill Pipe Above KB:

28.00 ft

Total Volume: 58.07 bbl Tool Chased

0.00 ft

Depth to Top Packer:

4219.00 ft

String Weight: Initial 42000.00 lb

Depth to Bottom Packer: Interval between Packers: 117.00 ft

Final 42000.00 lb

Tool Length: Number of Packers: 145.00 ft

2 Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4192.00	****	······································
Shut In Tool	5.00			4197.00		
Hydraulic tool	5.00			4202.00		
Jars	5.00			4207.00		
Safety Joint	3.00			4210.00		
Packer	5.00			4215.00	28.00	Bottom Of Top Packer
Packer	4.00			4219.00		
Stubb	1.00			4220.00		
Perforations	5.00			4225.00		
Change Over Sub	1.00			4226.00		
Drill Pipe	63.00			4289.00		
Drill Pipe	31.00			4320.00		
Change Over Sub	1.00			4321.00		
Perforations	10.00			4331.00		
Recorder	0.00	8358	Outside	4331.00		
Recorder	0.00	6669	Outside	4331.00		
Bullnose	5.00			4336.00	117.00	Bottom Packers & Anchor .
Total Tool Langth	. 445.00					

Total Tool Length:

145.00



FLUID SUMMARY

Credo Petroleum Corp.

Holloman 1-34

1801 Broadw ay #900 Denver Co. 80202

34-16s-29w Lane, KS

Job Ticket: 042152

DST#: 1

ATTN: Bruce Ard

Test Start: 2011.03.14 @ 23:18:15

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Mud Weight: Viscosity:

55.00 sec/qt

Water Loss: Resistivity:

Filter Cake:

Salinity:

0.00 ohm.m

7.16 in³

900.00 ppm 1.00 inches Cushion Type:

Cushion Length: Cushion Volume:

ft bbl Oil API:

0 deg API

Water Salinity:

0 ppm

Gas Cushion Type:

Gas Cushion Pressure:

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	gcom 5%g 5%o 90% m	0.344

Total Length:

70.00 ft

Total Volume:

0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs:

Serial#:

Laboratory Name:

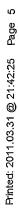
Laboratory Location:

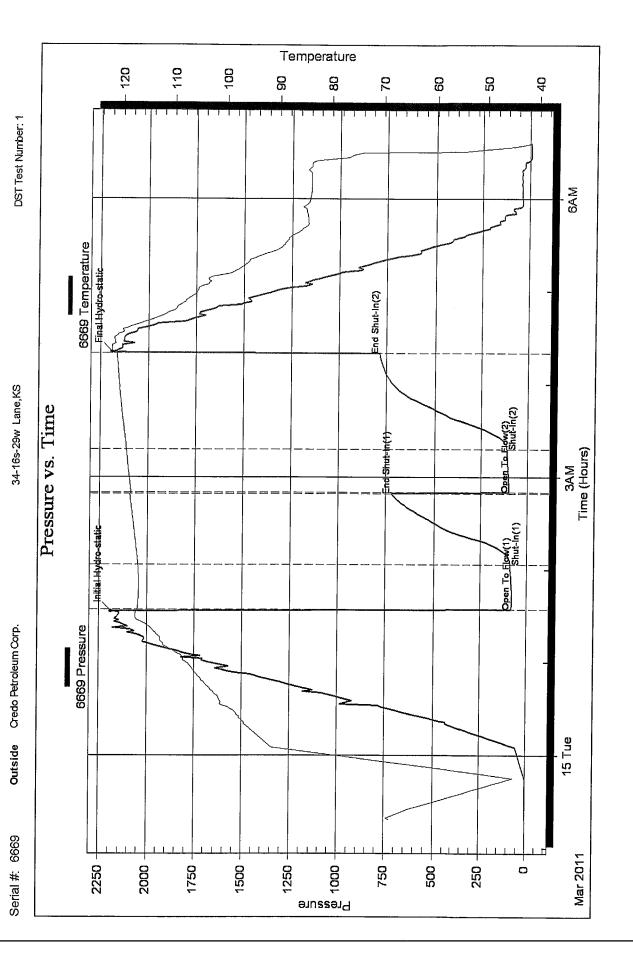
Recovery Comments:

Trilobite Testing, Inc

Ref. No: 042152

Printed: 2011.03.31 @ 21:42:25 Page 4





Ref. No: 042152

Trilobite Testing, Inc



Prepared For: Credo Petroleum Corp.

1801 Broadway #900 Denver Co. 80202

ATTN: Bruce Ard

34-16s-29w Lane,KS

Holloman 1-34

Start Date: 2011.03.15 @ 18:47:15 End Date: 2011.03.16 @ 02:05:30

Job Ticket #: 042153 DST#: 2

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



Credo Petroleum Corp.

Holloman 1-34

1801 Broadw ay #900 Denver Co. 80202

Job Ticket: 042153

34-16s-29w Lane, KS

DST#: 2

ATTN: Bruce Ard

Test Start: 2011.03.15 @ 18:47:15

GENERAL INFORMATION:

Time Tool Opened: 20:23:00

Time Test Ended: 02:05:30

Formation:

Marmaton-Ft.Scott

Deviated:

Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole

Tester:

Mike Roberts

Unit No:

48

Reference Elevations:

2807.00 ft (KB)

2802.00 ft (CF)

KB to GR/CF:

5.00 ft

Interval: Total Depth:

4328.00 ft (KB) To 4455.00 ft (KB) (TVD)

4455.00 ft (KB) (TVD)

Outside

Hole Diameter:

7.88 inches Hole Condition: Fair

Serial #: 6669

Press@RunDepth:

133.05 psig @

4450.00 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time: 2011.03.15 18:47:15 End Date: End Time: 2011.03.16 02:05:30

Last Calib.: Time On Btm: 2011.03.16

Time Off Btm:

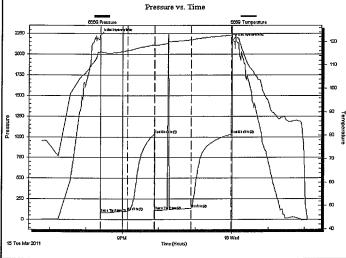
2011.03.15 @ 20:22:45 2011.03.16 @ 00:00:00

TEST COMMENT: IF:Built to 2" blow

IS:No return blow

FF:No blow --- flushed tool---Surged and died

FS:No return blow



PRESSURE SUMMARY

PRESSURE SUIVINART							
	Time	Pressure	Temp	Annotation			
	(Min.)	(psig)	(deg F)				
	0	2226.50	116.07	Initial Hydro-static			
	1	80.96	115.77	Open To Flow (1)			
	47	102.02	116.11	Shut-In(1)			
	91	1034.52	118.60	End Shut-In(1)			
d en	91	108.67	118.42	Open To Flow (2)			
Temperature	150	133.05	120.77	Shut-In(2)			
are .	216	1032.92	122.74	End Shut-In(2)			
	218	2170.65	122.92	Final Hydro-static			

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud w ith oil spots	0.30

Gas Rates

Choke (inches) | Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc.

Ref. No: 042153

Printed: 2011.03.31 @ 21:43:01 Page 2



TOOL DIAGRAM

Credo Petroleum Corp.

Holloman 1-34

1801 Broadw ay #900 Denver Co. 80202

34-16s-29w Lane, KS Job Ticket: 042153

DST#: 2

ATTN: Bruce Ard

Test Start: 2011.03.15 @ 18:47:15

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Drill Collar:

Length: 4197.00 ft Diameter:

Length:

0.00 ft Diameter: 122.00 ft Diameter:

3.80 inches Volume: 0.00 inches Volume:

58.87 bbl 0.00 bbl 0.60 bbl Tool Weight: Weight set on Packer: 20000.00 lb

1500.00 lb Weight to Pull Loose: 60000.00 lb

Drill Pipe Above KB:

19.00 ft

2.25 inches Volume: Total Volume: 59.47 bbl

Tool Chased

0.00 ft

Depth to Top Packer:

Number of Packers:

4328.00 ft

Depth to Bottom Packer:

ft Interval between Packers: 127.00 ft String Weight: Initial 42000.00 lb Final 44000.00 lb

Tool Length:

155.00 ft

2 Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4301.00		
Shut In Tool	5.00			4306.00		
Hydraulic tool	5.00			4311.00		
Jars	5.00			4316.00		
Safety Joint	3.00			4319.00		
Packer	5.00			4324.00	28.00	Bottom Of Top Packer
Packer	4.00			4328.00		
Stubb	1.00			4329.00		
Perforations	5.00			4334.00		
Change Over Sub	1.00			4335.00		
Drill Pipe	63.00			4398.00		
Drill Pipe	32.00			4430.00		
Change Over Sub	1.00			4431.00		
Perforations	19.00			4450.00		
Recorder	0.00	8358	Outside	4450.00		
Recorder	0.00	6669	Outside	4450.00		
Bullnose	5.00			4455.00	127.00	Bottom Packers & Anchor
Total Tool Length	: 155.00					

Total Tool Length:

155.00

Trilobite Testing, Inc

Ref. No: 042153

Printed: 2011.03.31 @ 21:43:01 Page 3



FLUID SUMMARY

Credo Petroleum Corp.

Holloman 1-34

1801 Broadw ay #900 Denver Co. 80202

34-16s-29w Lane, KS

Job Ticket: 042153

DST#: 2

ATTN: Bruce Ard

Test Start: 2011.03.15 @ 18:47:15

Oil APi:

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: Viscosity:

9.00 lb/gal 55.00 sec/qt

Water Loss:

7.16 in³ Resistivity: 0.00 ohm.m Salinity: 900.00 ppm

Filter Cake:

1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type: Gas Cushion Pressure: ft psig

bbl

Water Salinity:

0 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbi
60.00	mud w ith oil spots	0.295

Total Length:

60.00 ft

Total Volume:

0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs:

Serial#:

Laboratory Name:

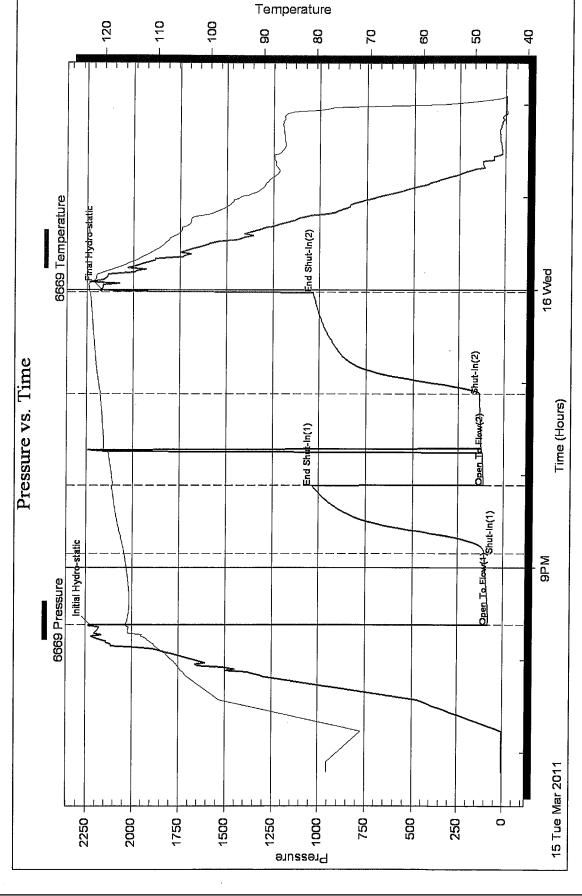
Laboratory Location:

Recovery Comments:

Gredo Petroleum Corp.

Outside

Serial #: 6669



Trilobite Testing, Inc





Prepared For:

Credo Petroleum Corp.

1801 Broadway #900 Denver Co. 80202

ATTN: Bruce Ard

34-16s-29w Lane, KS

Holloman 1-34

Start Date: 2011.03.16 @ 17:24:00

End Date:

2011.03.17 @ 02:33:00

Job Ticket #: 042154

DST#: 3

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



Credo Petroleum Corp.

Holloman 1-34

1801 Broadway #900 Denver Co. 80202

Job Ticket: 042154

34-16s-29w Lane, KS

DST#: 3

ATTN: Bruce Ard

Test Start: 2011.03.16 @ 17:24:00

GENERAL INFORMATION:

Time Tool Opened: 19:26:00

Time Test Ended: 02:33:00

Formation:

Interval:

Total Depth:

Hole Diameter:

CK-JZ No

Deviated:

Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole

Tester:

Kein Mack

Unit No:

Reference Elevations:

2807.00 ft (KB)

2802.00 ft (CF)

4556.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good

4456.00 ft (KB) To 4556.00 ft (KB) (TVD)

KB to GR/CF:

5.00 ft

Serial #: 6669 Press@RunDepth: Outside

404.28 psig @

4551.00 ft (KB)

Capacity: Last Calib.: 8000.00 psig

Start Date: Start Time: 2011.03.16 17:24:15

End Date: End Time: 2011.03.17 02:33:00

Time On Btm:

2011.03.17

Time Off Btm:

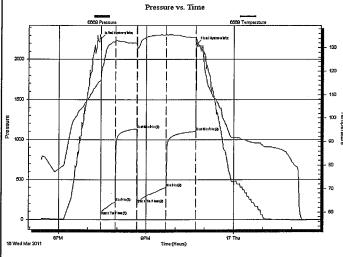
2011.03.16 @ 19:25:45 2011.03.16 @ 22:44:15

TEST COMMENT: IF: BOB in 6 minutes

IS: Return started at 10 Minutes, Built to 1/4" then died

FF: BOB in 9 min

FS: Return started at 5 minutes built to BoB in 30 minutes



1				
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2261.76	116.13	Initial Hydro-static
	1	51.41	115.89	Open To Flow (1)
	31	220.88	132.71	Shut-in(1)
	75	1131.49	131.96	End Shut-In(1)
Ten	77	206.03	130.28	Open To Flow (2)
Temperature	136	404.28	135.48	Shut-In(2)
ure	197	1101.67	134.30	End Shut-In(2)
	199	2197.60	132.94	Final Hydro-static
ĺ				·

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbf)
120.00	MW 25M 75W (oil spots)	0.59
150.00	GMCWO 30W 20M 30o 20G	2.09
124.00	GMCWO 25W 10M 50o 15G	1.74
124.00	GMCWO 10W 25M 50o 20G	1.74
80.00	GOCM 75m 5o 20G	1.12
402.00	Clean gassy oil 100o	5.64

Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc.

Ref. No: 042154

Printed: 2011.03.31 @ 21:43:38 Page 2



TOOL DIAGRAM

Credo Petroleum Corp.

1801 Broadw ay #900 Denver Co. 80202

ATTN: Bruce Ard

Holloman 1-34

34-16s-29w Lane, KS

Job Ticket: 042154

DST#: 3

Test Start: 2011.03.16 @ 17:24:00

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length: Drill Collar:

Length:

Length: 4321.00 ft Diameter:

0.00 ft Diameter: 122.00 ft Diameter:

3.80 inches Volume: 0.00 inches Volume: 2.25 inches Volume:

Total Volume:

60.61 bbl 1dd 00.0 0.60 bbl

61.21 bbl

Tool Weight: 2500.00 lb Weight set on Packer: 25000.00 lb

Weight to Pull Loose: 55000.00 lb Tool Chased

Drill Pipe Above KB: 15.00 ft Depth to Top Packer: 4456.00 ft

Depth to Bottom Packer: Interval between Packers: 100.00 ft

128.00 ft

String Weight: Initial 46000.00 lb

48000.00 lb Final

Tool Length: Number of Packers:

2

Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4429.00		
Shut in Tool	5.00			4434.00		
Hydraulic tool	5.00			4439.00		
Jars	5.00			4444.00		
Safety Joint	3.00			4447.00		
Packer	5.00			4452.00	28.00	Bottom Of Top Packer
Packer	4.00			4456.00		
Stubb	1.00			4457.00		
Perforations	30.00			4487.00		
Change Over Sub	1.00			4488.00		
Drill Pipe	62.00			4550.00		
Change Over Sub	1.00			4551.00		
Recorder	0.00	8358	Outside	4551.00		
Recorder	0.00	6669	Outside	4551.00		
Bullnose	5.00			4556.00	100.00	Bottom Packers & Anchor

Total Tool Length:

128.00

Trilobite Testing, Inc

Ref. No: 042154

Printed: 2011.03.31 @ 21:43:39 Page 3



FLUID SUMMARY

Credo Petroleum Corp.

Holloman 1-34

1801 Broadway #900 Denver Co. 80202

34-16s-29w Lane, KS Job Ticket: 042154

ft

bbl

psig

DST#: 3

ATTN: Bruce Ard

Test Start: 2011.03.16 @ 17:24:00

Mud and Cushion Information

Mud Type: Gel Chem Mud Weight:

10.00 lb/gal

57.00 sec/qt

Viscosity: Water Loss: 6.78 in³ Resistivity: 0.00 ohm.m

Salinity:

4300.00 ppm 1.00 inches Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type: Gas Cushion Pressure:

Oil API: Water Salinity: 31 deg API

45000 ppm

Filter Cake:

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW 25M 75W (oil spots)	0.590
150.00	GMCWO 30W 20M 30o 20G	2.086
124.00	GMCWO 25W 10M 50o 15G	1.739
124.00	GMCWO 10W 25M 50o 20G	1.739
80.00	GOCM 75m 5o 20G	1.122
402.00	Clean gassy oil 100o	5.639
0.00	1054' GIP	0.000

Total Length:

1000.00 ft

Total Volume:

12.915 bbl

Num Fluid Samples: 0

Num Gas Bombs:

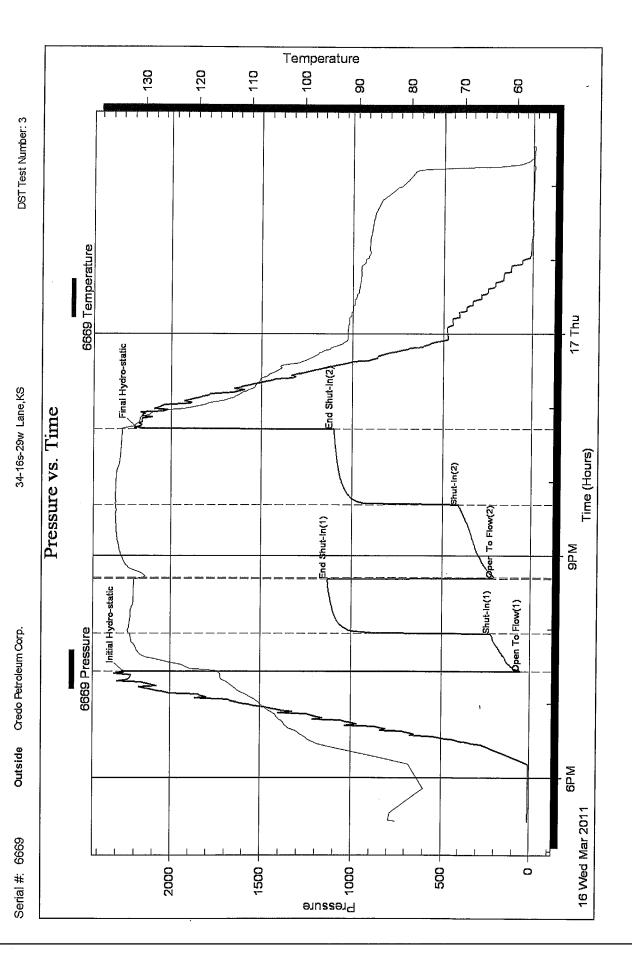
Laboratory Name:

Laboratory Location:

Serial#:

Recovery Comments: RW .2@62=45000 Gravity 31@ 62=31





Trilobite Testing, Inc

Ref. No: 042154





Prepared For:

Credo Petroleum Corp.

1801 Broadway #900 Denver Co. 80202

ATTN: Bruce Ard

34-16s-29w Lane,KS

Holloman 1-34

Start Date: 2011.03.17 @ 10:43:00

End Date:

2011.03.17 @ 19:29:08

Job Ticket #: 042155

DST#: 4

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



Credo Petroleum Corp.

1801 Broadw ay #900 Denver Co. 80202

ATTN: Bruce Ard

Holloman 1-34

34-16s-29w Lane, KS

Job Ticket: 042155

DST#:4

Test Start: 2011.03.17 @ 10:43:00

GENERAL INFORMATION:

Time Tool Opened: 13:55:53

Time Test Ended: 19:29:08

Formation:

Miss.

No

Deviated:

Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole

Tester:

Kevin Mack

Unit No:

48

Reference Elevations:

2807.00 ft (KB)

2802.00 ft (CF)

KB to GR/CF:

5.00 ft

Interval:

4578.00 ft (KB) To 4589.00 ft (KB) (TVD)

4589.00 ft (KB) (TVD)

Total Depth: Hole Diameter:

7.88 inches Hole Condition: Good

Serial #: 6669

Outside Press@RunDepth:

116.78 psig @

4584.00 ft (KB)

2011.03.17

Capacity:

8000.00 psig

Start Date: Start Time: 2011.03.17 10:43:15 End Date: End Time:

19:29:08

Last Calib.: Time On Btm: 2011.03.17

Time Off Btm:

2011.03.17 @ 13:55:23 2011.03.17 @ 17:33:38

TEST COMMENT: IF: Surface blow Built to 4 3/4"

IS: No Return

FF: Blow started at 15 min. Built to 2 1/4"

FS: No Return

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PRESSURE SUMMARY

	FILOSOIL SOWWALL									
	Time	Pressure	Temp	Annotation						
	(Min.)	(psig)	(deg F)							
	0	2358.82	118.36	Initial Hydro-static						
	1	33.74	118.55	Open To Flow (1)						
	49	91.85	129.87	Shut-ln(1)						
	97	1225.99	130.42	End Shut-In(1)						
3	97	93.84	130.17	Open To Flow (2)						
Temperatur	156	116.78	133.19	Shut-ln(2)						
7	218	1225.21	133.43	End Shut-In(2)						
	219	2245.06	132.98	Final Hydro-static						
1										

Recovery

Length (ft)	Description	Volume (bbl)
60.00	V/M 20W 80M	0.30
60.00	MW 90W 10M	0.30
62.00	MVV 70W 30M	0.85
8.00	MW 60W 40M	0.11
2.00	Free oil 100o	0.03

Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 042155

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TOOL DIAGRAM

Credo Petroleum Corp.

Holloman 1-34

1801 Broadw ay #900 Denver Co. 80202

34-16s-29w Lane, KS Job Ticket: 042155

DST#:4

ATTN: Bruce Ard

Test Start: 2011.03.17 @ 10:43:00

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Drill Collar:

Length: 4443.00 ft Diameter:

Length:

0.00 ft Diameter: 122.00 ft Diameter:

3.80 inches Volume: 0.00 inches Volume: 2.25 inches Volume:

62.32 bbl 1dd 00.0 0.60 bbl

Tool Weight: Weight set on Packer: 25000.00 lb

2500.00 lb Weight to Pull Loose: 58000.00 ib

Total Volume: 62.92 bbl Tool Chased

String Weight: Initial 48000.00 lb

Final 49000.00 lb

Drill Pipe Above KB: Depth to Top Packer:

Number of Packers:

Depth to Bottom Packer:

Interval between Packers:

15.00 ft 4578.00 ft

ft 11.00 ft

39.00 ft

2 Diameter:

6.75 inches

Tool Comments:

Tool Length:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4551.00		
Shut in Tool	5.00			4556.00		
Hydraulic tool	5.00			4561.00	•	
Jars	5.00			4566.00		
Safety Joint	3.00			4569.00		
Packer	5.00			4574.00	28.00	Bottom Of Top Packer
Packer	4.00			4578.00		
Stubb	1.00			4579.00		
Perforations	5.00			4584.00		
Recorder	0.00	8358	Outside	4584.00		
Recorder	0.00	6669	Outside	4584.00		
Bullnose	5.00			4589.00	11.00	Bottom Packers & Anchor

Total Tool Length:

39.00



FLUID SUMMARY

Credo Petroleum Corp.

Holloman 1-34

1801 Broadw ay #900 Denver Co. 80202

34-16s-29w Lane, KS

Job Ticket: 042155

ft

bbl

psig

DST#: 4

ATTN: Bruce Ard

Test Start: 2011.03.17 @ 10:43:00

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Viscosity: Water Loss: 53.00 sec/qt 6.79 in³ 0.00 ohm.m

Resistivity: Salinity: Filter Cake:

Mud Weight:

2100.00 ppm 1.00 inches Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

deg API

Water Salinity: 18000 ppm

Recovery Information

Recovery Table

Length Description Volume bbl 60.00 WM 20W 80M 0.295 60.00 MW 90W 10M 0.295 62.00 MW 70W 30M 0.851 8.00 MW 60W 40M 0.112 0.028 2.00 Free oil 100o

Total Length:

192.00 ft

Total Volume:

1.581 bbl

Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .47@ 64 deg. = 18000

Trilobite Testing, Inc

Ref. No: 042155

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DST Test Number: 4

34-16s-29w Lane,KS

Outside Credo Petroleum Corp.

Serial #: 6669

Trilobite Testing, Inc

Ref. No: 042155

ED EMENTING 039885

Federal Tax I.D.# 20-5975804

JOB FINI

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REMIT TO

LEASE BULK DATE OLD OR NEW (Circle one) HOLE SIZE TYPE OF JOB SIGNATURE PRINTED NAME (CITY STREET CHARGE TO: BULK TRUCK PUMP TRUCK DISPLACEMENT PERFS CEMENT LEFT IN CSG MEAS. LINE PRES. MAX TOOL DRILL PIPE TUBING SIZE CASING SIZE CONTRACTOR WW TERMS AND CONDITIONS" contractor. done to satisfaction and supervision of owner agent or contractor to do work as is listed. and furnish cementer and helper(s) to assist owner or You are hereby requested to rent cementing equipment To Allied Cementing Co., LLC. TRUCK 10 P.O. BOX 31 RUSSELL, KANSAS 67665 I have read and understand the "GENERAL 1158 E olas DRIVER DRIVER HELPER CEMENTER ISEC: WELL# Mischall **EQUIPMENT** REMARKS: STATE Mash 8-6 listed on the reverse side SHOE JOINT DEPTH MINIMUM DEPTH DEPTH DEPTH T.D. The above work was 3 63 LOCATION Haufy RANGE 2/16 ZIP d CALLED OUT MANIFOLD. ASC GEL OWNER **POZMIX** COMMON MILEAGE **EXTRA FOOTAGE** PUMP TRUCK CHARGE DEPTH OF JOB MILEAGE, HANDLING CHLORIDE AMOUNT ORDERED CEMENT DISCOUNT TOTAL CHARGES SALES TAX (If Any) clk-ing w PLUG & FLOAT EQUIPMENT ON LOCATION 6 SERVICE SERVICE POINT: @ 11,25 @ 58,70 (8) (8) (8) (8) (8) (9) **® ®** (8) 8 **®** (8) (9) (9) JOB START 9999 (3) (8) (3) 1635 \$ 400 TOTAL TOTAL TOTAL 18 IF PAID IN 30 DAYS

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CEMENTING Federal Tax I.D.# 20-5975804 039892

SIGNATURE A LOW DUM	PRINTED NAME DON GUY	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.	To Allied Cementing Co., LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or	STREETSTATEZIP	Han Waye Wit Dany	Low Held bree pening real Plug & 1500/8	Mr. City To Bell This I want City lets on Bothon 45 Mix. Pung 5 ARL Hoftend Mr. 185 SK, 185 C. Mark Touch & Line, Bir Mare Phin W. 54 ARL H. n-5911 ARL Ming	# PH 403 DRIVER W.	VLL KTRUCK	PUMPTRUCK CEMENTER HA	SG. S	19 5/2 14/h	RMW	2 -	KANSAS 67665
	DISCOUNT IF PAID IN 30 DAYS	TOTAL $3344 \stackrel{PO}{=}$ SALES TAX (If Any)	\$ 0,500 D	TOTAL 36.59 CE PLUG & FLOAT EQUIPMENT	984	K CHARGE	SERVICE HE TOR 44 >2	HANDLING 3/4 5K) @ 2 = 49/52 MILEAGE//4 5K/ mil. TOTAL 63/0, 33	Chrick Connection @ 525 CB	2 1	MIX ORIDE ORIDE ORIOE ORIO	CEMENT AMOUNT ORDERED 185 St. ASC 1000 Sath L'OGG	OWNER San	ETO 23-4 Jet 1/2 COUNTY STATE ETO 23-4 Jet 1/2 COUNTY STATE	SERVICE POINT:

ALLIED CEMENTING CO., LLC. Federal Tax 1.D.# 20-5975804 039893

PRINTED NAME DON SUY SIGNATURE DON SUY	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.	CHARGE TO: Crello STREETSTATEZIP	Classe, Coment Diel Cirun late	Julk TRYCK	PUMPTRUCK CEMENTER Han # HELPER Han BULK TRUCK # UN DRIVER	DRILL PIPE DRILL PIPE TOOL PRES. MAX MEAS. LINE CEMENT LEFT IN CSG. DEPTH MINIMUM SHOE JOINT 40' PERFS. DISPLACEMENT	414	REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665 DATE 3 / 19/11 SEC. TWP. RANGE 29 CA DATE 3 / 19/11 SEC. TWP. LOCATION Haby OLD OR NEW Circle one) 1/2 N Car
DISCOUNT IF PAID IN 30 DAYS		TOTAL A PLUG & FLOAT EQUIPMENT	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE MILEAGE MANIFOLD Watty Tire HPPer 4kn @ 400 = 11 C	HANDLING 433 MILEAGE // 4 SK/m. (Typa Class A		OWNER Same CEMENT AMOUNT ORDERED 4055K; BLM	SERVICE POINT: SHALLED OUT ON LOCATION JOB START JOB FINISH COUNTY STATE COUNTY STATE