



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1212511
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- 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:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

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: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1212511

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, 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:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Messenger Petroleum, Inc.
Well Name	CONRARDY SEEDS 1
Doc ID	1212511

Tops

Name	Top	Datum
Indian Cave	2402	-691
Heebner	3349	-1638
Lansing	3567	-1856
Swope	3918	-2207
Miss	4208	-2497
Kinderhook	4314	-2603
Viola	4494	-2783
Simpson	4539	-2828
RTD/LTD	4542	-2831

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

No. 3908

ne 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

all 785-324-1041

Date	5-24-10	Sec.	11	Twp.	29	Range	9	County	KINGMAN	State	KS	On Location		Finish	9:45 PM
Lease	CONRADY REEDS			Well No.	1			Location	HWY 54 + 80th 85 1/2 E N1W10						
Contractor	STERLING 4							Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.						
Type Job	SFC							Charge To	MESSENGER PET.						
Hole Size	12 1/4			T.D.	225			Street							
Csg.	8 5/8 23#			Depth	223			City	State						
Tbg. Size								State							
Tool								City	State						
Cement Left in Csg.	15			Shoe Joint	15			The above was done to satisfaction and supervision of owner agent or contractor.							
Meas Line				Displace	13.3 PBL			Cement Amount Ordered	725 60/40 2% 66L 3% CC 1/4 Cellof/PAR						

EQUIPMENT

Pumptrk	5	No.	Cementor	4	Common	135
			Helper			
Bulktrk	3	No.	Driver	4	Poz. Mix	90
			Driver			
Bulktrk	PK	No.	Driver	4	Gel.	4
			Driver			

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal 56
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
Run 5 JTS 8 5/8 23#	Sand
Set @ 223	Handling 236
Mix 1 Pump 225 x 60K	Mileage .03 PER SK PER M. LK
2% GEL 3% CC 1/4" CP.	
14.7 1/4 GAL 1.25	

FLOAT EQUIPMENT

SHUT DOWN	Guide Shoe
Release Wooden Plug	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
RESP 13.3 PBL total	1 Wooden Plug
Close valves on csg	Pumptrk Charge Surface
Circulation THROUGHOUT	Mileage 35
JOB Cement circulation	
THANKS TOM DAZIN CISCO	

Signature	Tom Dazin	Tax	3798.72
		Discount	
		Total Charge	

BID # 510-260

Customer <i>Messenger L.P. Well</i>	Lease No. <i>1</i>	Date <i>6-3-10</i>
Lease <i>concrete cuts</i>	Well # <i>1</i>	
Field Order # <i>1546</i>	Station <i>1546</i>	Casing <i>4 1/2</i>
Type Job <i>CNW 5 1/2 LS</i>	Formation	Depth
		County <i>Kingman</i>
		State <i>KS</i>
		Legal Description <i>11-27-9</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
Depth <i>7526</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>107</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>1500</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>4207 25</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Sullivan</i>
Service Units <i>19867 17829 15891 19826 17860</i>		
Driver Names <i>Redmond m/s/x 71022</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1300					on for 30 min. 12:00
					Run 107 500 1000 1000
					cont. 1, 2, 28, 9, 14, 15, 16, 21, 28 Bbls @ 100
1525					Casing on Backhaul
1545					Hook Rig to back side
1650	200		24	5	Set 111'
			3		At Spool
			9	55	mix 2000 gal conc 25% 1
				6	min conc 200 & 100
			63		stop down conc mixture with pump
					Release Plug
1712				6	At Spool
	300		74		Set 111'
	550			4	Slow Rate
1730	1500		107	4	Plug down 7000 min 1000 1100
			6		Plug 111' w/ 20% 300 10000 shot
					on 111'
					Job Complete
					<i>David Scott</i>



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

00401911649
FIELD SERVICE TICKET

1718 1546 A

DATE _____ TICKET NO. CONV

DATE OF JOB <u>6-3-10</u>	DISTRICT <u>Pratt</u>	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:	
CUSTOMER <u>Messenger Petroleum</u>		LEASE <u>conrardy seeds</u>					WELL NO. <u>1</u>	
ADDRESS		COUNTY <u>Kingman</u>			STATE <u>Ks</u>			
CITY STATE		SERVICE CREW <u>Sullivan Melson Florez</u>						
AUTHORIZED BY		JOB TYPE: <u>AWL 5 1/2 LS</u>						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE AM PM TIME	
<u>19889 19842</u>	<u>50</u>						<u>6-3-10 AM 12:45</u>	
<u>19806 19860</u>	<u>50</u>						<u>6-3-10 AM 16:50</u>	
<u>19867</u>							<u>6-3-10 AM 17:40</u>	
							<u>6-3-10 AM 18:00</u>	
						RELEASED	<u>6-3-10 AM 18:00</u>	
						MILES FROM STATION TO WELL	<u>30</u>	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	AA2 Cement	SK	275		4675 00
CC 102	Cello-Flab	Lb	69		255 30
CC 111	salt	lb	1386		693 00
CC 115	Gas-Block	lb	195		1004 25
CC 129	FLA 322	lb	130		975 00
CF 103	TOP Rubber Cement Plug	eg	1		105 00
CF 251	Guide shoe Regular	eg	1		250 00
CF 1451	FLAPPER TYPE Insert FLOAT Valve	eg	1		215 00
CF 1651	Turbolizer	el	10		1100 -
CF 1901	5/2 Basher	eg	1		290 -
CF 2002	Cement Scrubbers Rotation Type	eg	20		1000 00
C 704	CS-1L HCL substitute	gal	5		175 00
CC 151	Mud Flush	gal	1000		860 00
E 100	Unit Mileage Charge - Pickups, small Van	mi	30		127 50
E 101	Heavy Equipment Mileage	mi	60		420 00
E 113	Proppant and Bulb Delivery Charges person	TM	389		1621 60
CE 205	Depth Charge 4001-5000	4hr	1		12520 00
CE 240	Blending & mixing service charge	SK	275		395 00
CE 501	Casing Swivel Rental	eu	1		200 00

SUB TOTAL

DLS

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT %TAX ON \$
MATERIALS %TAX ON \$

Thank you

TOTAL

SERVICE REPRESENTATIVE [Signature] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY [Signature]

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



DRILL STEM TEST REPORT

Prepared For: **Messenger Petl.Inc.**

525 S.Main
Kingman KS 67068

ATTN: Jon Messenger

11-29s-9w Kingman KS

Conrardy Seeds#1

Start Date: 2010.05.28 @ 19:04:08

End Date: 2010.05.29 @ 00:41:23

Job Ticket #: 36886 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.02 @ 12:45:48

Messenger Petl.Inc.
Conrardy Seeds#1
11-29s-9w Kingman KS
DST # 1
Toronto
2010.05.28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Messenger Petl.Inc.

525 S.Main
Kingman KS 67068

ATTN: Jon Messenger

Conrardy Seeds#1

11-29s-9w Kingman KS

Job Ticket: 36886

DST#: 1

Test Start: 2010.05.28 @ 19:04:08

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:16:08

Time Test Ended: 00:41:23

Test Type: Conventional Straddle (Initial)

Tester: Gary Pevoteaux

Unit No: 39

Interval: 3365.00 ft (KB) To 3380.00 ft (KB) (TVD)

Reference Elevations: 1711.00 ft (KB)

Total Depth: 3406.00 ft (KB) (TVD)

1702.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: 8646

Inside

Press@RunDepth: 12.93 psig @ 3366.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.05.28

End Date: 2010.05.29

Last Calib.: 2010.05.29

Start Time: 19:04:13

End Time: 00:41:22

Time On Btm: 2010.05.28 @ 21:14:38

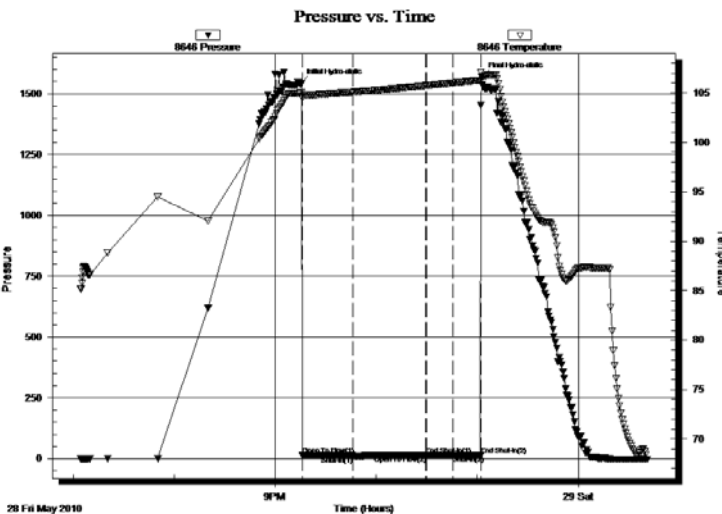
Time Off Btm: 2010.05.28 @ 23:02:38

TEST COMMENT: IF:Very weak blow. (surface)Dead in 1 min.

ISI:No blow.

FF:No blow.

FSI:No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1542.91	105.00	Initial Hydro-static
2	12.70	104.49	Open To Flow(1)
32	10.51	105.08	Shut-In(1)
75	13.47	105.74	End Shut-In(1)
75	12.15	105.74	Open To Flow(2)
91	12.93	106.01	Shut-In(2)
108	13.75	106.29	End Shut-In(2)
108	1567.81	106.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume(bbl)
1.00	Drlg.mud	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Messenger Petl.Inc.

Conrardy Seeds#1

525 S.Main
Kingman KS 67068

11-29s-9w Kingman KS

ATTN: Jon Messenger

Job Ticket: 36886

DST#: 1

Test Start: 2010.05.28 @ 19:04:08

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:16:08

Time Test Ended: 00:41:23

Test Type: Conventional Straddle (Initial)

Tester: Gary Pevoteaux

Unit No: 39

Interval: 3365.00 ft (KB) To 3380.00 ft (KB) (TVD)

Reference Elevations: 1711.00 ft (KB)

Total Depth: 3406.00 ft (KB) (TVD)

1702.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: 8167

Press@RunDepth: psig @ 3401.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.05.28

End Date: 2010.05.29

Last Calib.: 2010.05.29

Start Time: 19:18:27

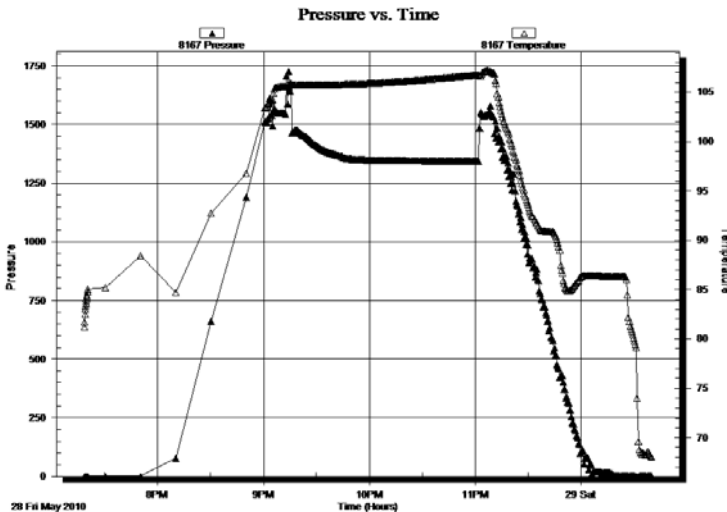
End Time: 00:40:06

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:Very weak blow. (surface)Dead in 1 min.
ISI:No blow.
FF:No blow.
FSI:No blow.

PRESSURE SUMMARY



Time (Min.)

Pressure (psig)

Temp (deg F)

Annotation

Recovery

Length (ft)	Description	Volume(bbl)
1.00	Drlg.mud	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Messenger Petl.Inc.

525 S.Main
Kingman KS 67068

ATTN: Jon Messenger

Conrardy Seeds#1

11-29s-9w Kingman KS

Job Ticket: 36886

DST#: 1

Test Start: 2010.05.28 @ 19:04:08

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:16:08

Time Test Ended: 00:41:23

Test Type: Conventional Straddle (Initial)

Tester: Gary Pevoteaux

Unit No: 39

Interval: 3365.00 ft (KB) To 3380.00 ft (KB) (TVD)

Reference Elevations: 1711.00 ft (KB)

Total Depth: 3406.00 ft (KB) (TVD)

1702.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: 8370 Outside

Press@RunDepth: psig @ 3366.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.05.28

End Date: 2010.05.29

Last Calib.: 2010.05.29

Start Time: 19:07:13

End Time: 00:44:37

Time On Btm:

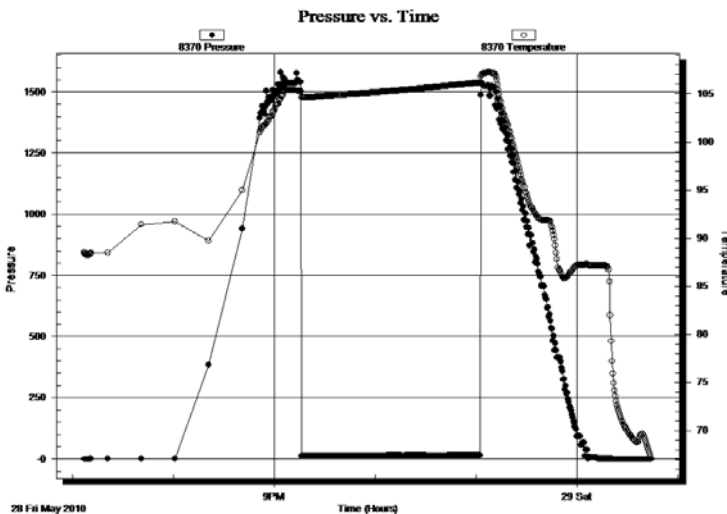
Time Off Btm:

TEST COMMENT: IF:Very weak blow. (surface)Dead in 1 min.

ISI:No blow.

FF:No blow.

FSI:No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume(bbl)
1.00	Drlg.mud	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Messenger Petl.Inc.

Conrardy Seeds#1

525 S.Main
Kingman KS 67068

11-29s-9w Kingman KS

Job Ticket: 36886

DST#: 1

ATTN: Jon Messenger

Test Start: 2010.05.28 @ 19:04:08

Tool Information

Drill Pipe:	Length: 3158.00 ft	Diameter: 3.80 inches	Volume: 44.30 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 216.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose:	83000.00 lb
			<u>Total Volume: 45.36 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	63000.00 lb
Depth to Top Packer:	3365.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	3380.00 ft				
Interval between Packers:	15.00 ft				
Tool Length:	61.00 ft				
Number of Packers:	3	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

C.O. Sub	1.00			3346.00		
Shut in tool	5.00			3351.00		
HMV	5.00			3356.00		
Packer	4.00			3360.00	20.00	Bottom Of Top Packer
Packer	5.00			3365.00		
Stubb	1.00			3366.00		
Recorder	0.00	8646	Inside	3366.00		
Recorder	0.00	8370	Outside	3366.00		
Perforations	10.00			3376.00		
Blank Off Sub	1.00			3377.00		
T.C.	3.00			3380.00	15.00	Tool Interval
Packer	0.00			3380.00		
Stubb	1.00			3381.00		
Perforations	20.00			3401.00		
Recorder	0.00	8167	Below	3401.00		
Bullnose	5.00			3406.00	26.00	Bottom Packers & Anchor Tool

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Messenger Petl.Inc.

Conrardy Seeds#1

525 S.Main
Kingman KS 67068

11-29s-9w Kingman KS

Job Ticket: 36886

DST#: 1

ATTN: Jon Messenger

Test Start: 2010.05.28 @ 19:04:08

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

4000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Drig.mud	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

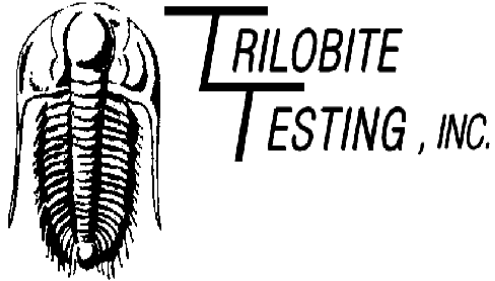
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

Prepared For: **Messenger Petl.Inc.**

525 S.Main
Kingman KS 67068

ATTN: Jon Messenger

11-29s-9w Kingman KS

Conrardy Seeds#1

Start Date: 2010.06.02 @ 15:45:34

End Date: 2010.06.02 @ 22:50:49

Job Ticket #: 36891 DST #: 6

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.02 @ 12:48:06

Messenger Petl.Inc.
Conrardy Seeds#1
11-29s-9w Kingman KS
DST # 6
Viola
2010.06.02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Messenger Petl.Inc.

525 S.Main
Kingman KS 67068

ATTN: Jon Messenger

Conrardy Seeds#1

11-29s-9w Kingman KS

Job Ticket: 36891

DST#: 6

Test Start: 2010.06.02 @ 15:45:34

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:24:49

Time Test Ended: 22:50:49

Test Type: Conventional Straddle (Reset)

Tester: Gary Pevoteaux

Unit No: 39

Interval: 4520.00 ft (KB) To 4529.00 ft (KB) (TVD)

Reference Elevations: 1711.00 ft (KB)

Total Depth: 4542.00 ft (KB) (TVD)

1702.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: 8167 Inside

Press@RunDepth: 14.98 psig @ 4521.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.06.02 End Date: 2010.06.02

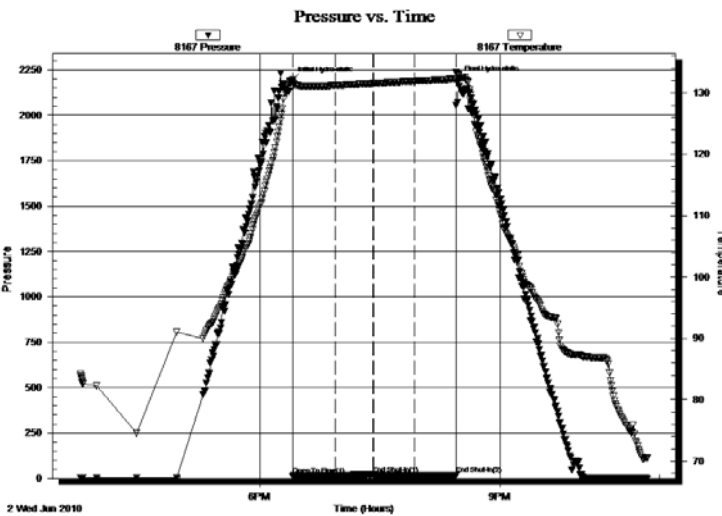
Last Calib.: 2010.06.02

Start Time: 15:45:39 End Time: 22:50:48

Time On Btm: 2010.06.02 @ 18:23:34

Time Off Btm: 2010.06.02 @ 20:28:48

TEST COMMENT: IF:Weak blow. 1/2" decreasing.
ISI:No blow.
FF:No blow.
FSI:No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2184.89	132.07	Initial Hydro-static
2	13.78	131.02	Open To Flow(1)
33	15.53	131.20	Shut-In(1)
62	20.77	131.55	End Shut-In(1)
62	15.14	131.55	Open To Flow(2)
93	14.98	131.92	Shut-In(2)
124	17.65	132.25	End Shut-In(2)
126	2190.07	132.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume(bbl)
3.00	Heavy mud/ Good odor	0.01

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Messenger Petl.Inc.

525 S.Main
Kingman KS 67068

ATTN: Jon Messenger

Conrardy Seeds#1

11-29s-9w Kingman KS

Job Ticket: 36891

DST#: 6

Test Start: 2010.06.02 @ 15:45:34

GENERAL INFORMATION:

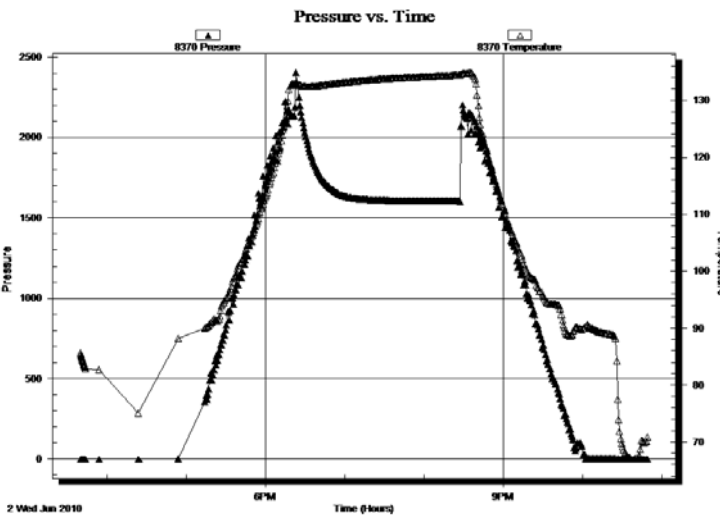
Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:24:49
Time Test Ended: 22:50:49
Interval: 4520.00 ft (KB) To 4529.00 ft (KB) (TVD)
Total Depth: 4542.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Straddle (Reset)
Tester: Gary Pevoteaux
Unit No: 39
Reference Elevations: 1711.00 ft (KB)
1702.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8370

Below

Press@RunDepth: psig @ 4537.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.06.02 End Date: 2010.06.02 Last Calib.: 2010.06.02
Start Time: 15:39:59 End Time: 22:49:23 Time On Btm:
Time Off Btm:

TEST COMMENT: IF:Weak blow. 1/2" decreasing.
ISI:No blow.
FF:No blow.
FSI:No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume(bbl)
3.00	Heavy mud/ Good oder	0.01

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Messenger Petl.Inc.

Conrardy Seeds#1

525 S.Main
Kingman KS 67068

11-29s-9w Kingman KS

Job Ticket: 36891

DST#: 6

ATTN: Jon Messenger

Test Start: 2010.06.02 @ 15:45:34

Tool Information

Drill Pipe:	Length: 4307.00 ft	Diameter: 3.80 inches	Volume: 60.42 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 216.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose:	86000.00 lb
			<u>Total Volume: 61.48 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	73000.00 lb
Depth to Top Packer:	4520.00 ft			Final	73000.00 lb
Depth to Bottom Packer:	4529.00 ft				
Interval between Packers:	9.00 ft				
Tool Length:	42.00 ft				
Number of Packers:	3	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

C.O. Sub	1.00			4501.00		
Shut in tool	5.00			4506.00		
HMV	5.00			4511.00		
Packer	4.00			4515.00	20.00	Bottom Of Top Packer
Packer	5.00			4520.00		
Stubb	1.00			4521.00		
Recorder	0.00	8167	Inside	4521.00		
Perforations	4.00			4525.00		
Blank Off Sub	1.00			4526.00		
T.C.	3.00			4529.00	9.00	Tool Interval
Packer	0.00			4529.00		
Stubb	1.00			4530.00		
Perforations	7.00			4537.00		
Recorder	0.00	8370	Below	4537.00		
Bullnose	5.00			4542.00	13.00	Bottom Packers & Anchor Tool

Total Tool Length: 42.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Messenger Petl.Inc.

Conrardy Seeds#1

525 S.Main
Kingman KS 67068

11-29s-9w Kingman KS

Job Ticket: 36891

DST#: 6

ATTN: Jon Messenger

Test Start: 2010.06.02 @ 15:45:34

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

5500 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Heavy mud/ Good oder	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

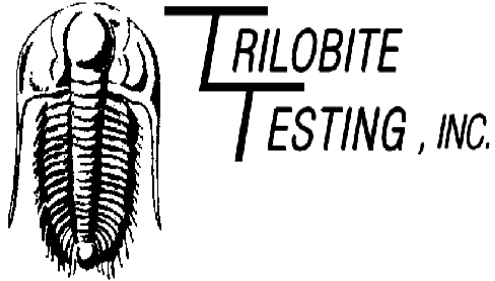
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

Prepared For: **Messenger Petl.Inc.**

525 S.Main
Kingman KS 67068

ATTN: Jon Messenger

11-29s-9w Kingman KS

Conrardy Seeds#1

Start Date: 2010.06.02 @ 08:53:53

End Date: 2010.06.02 @ 15:34:53

Job Ticket #: 36890 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.02 @ 12:47:44

Messenger Petl.Inc.
Conrardy Seeds#1
11-29s-9w Kingman KS
DST # 5
Simpson Sd.
2010.06.02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Messenger Petl.Inc.

525 S.Main
Kingman KS 67068

ATTN: Jon Messenger

Conrardy Seeds#1

11-29s-9w Kingman KS

Job Ticket: 36890

DST#: 5

Test Start: 2010.06.02 @ 08:53:53

GENERAL INFORMATION:

Formation: **Simpson Sd.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:28:08

Time Test Ended: 15:34:53

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 39

Interval: 4536.00 ft (KB) To 4542.00 ft (KB) (TVD)

Reference Elevations: 1711.00 ft (KB)

Total Depth: 4542.00 ft (KB) (TVD)

1702.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: 8370 **Outside**

Press@RunDepth: 876.00 psig @ 4537.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.06.02

End Date: 2010.06.02

Last Calib.: 2010.06.02

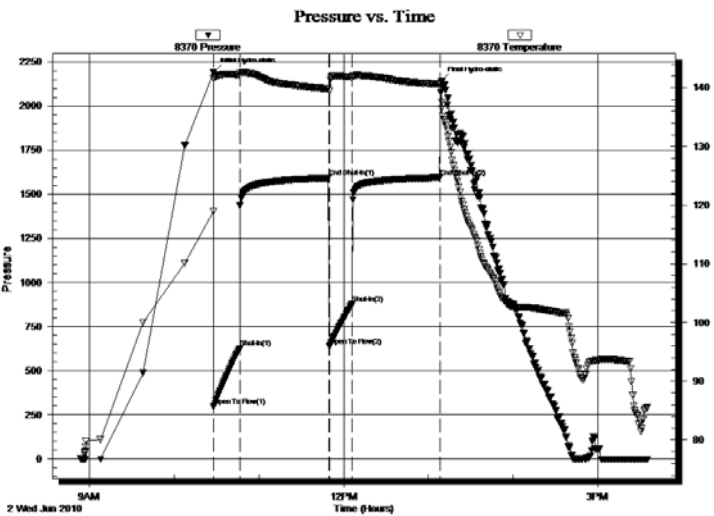
Start Time: 08:53:58

End Time: 15:34:52

Time On Btm: 2010.06.02 @ 10:27:53

Time Off Btm: 2010.06.02 @ 13:09:08

TEST COMMENT: IF:Strong blow. B.O.B. in 2 1/2 mins.
ISI:Fair blow. Increase to 8 - 9".
FF:Strong blow. B.O.B. in 3 1/2mins.
FSI:Weak blow. 1 - 2".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2188.69	118.95	Initial Hydro-static
1	297.72	141.65	Open To Flow(1)
19	625.44	142.16	Shut-In(1)
82	1591.81	139.81	End Shut-In(1)
82	637.91	139.52	Open To Flow(2)
98	876.00	141.82	Shut-In(2)
161	1593.51	140.59	End Shut-In(2)
162	2140.14	137.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume(bbl)
1865.00	GCW 3%g 97%w /Rw.08ohms@80deg	24.19
80.00	GCMW 5%g 22%w 73%w	1.12
0.00	510 ft.of GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Messenger Petl.Inc.

525 S.Main
Kingman KS 67068

ATTN: Jon Messenger

Conrardy Seeds#1

11-29s-9w Kingman KS

Job Ticket: 36890

DST#: 5

Test Start: 2010.06.02 @ 08:53:53

GENERAL INFORMATION:

Formation: **Simpson Sd.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:28:08

Time Test Ended: 15:34:53

Interval: 4536.00 ft (KB) To 4542.00 ft (KB) (TVD)

Total Depth: 4542.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 39

Reference Elevations: 1711.00 ft (KB)

1702.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8167

Inside

Press@RunDepth: psig @ 4537.00 ft (KB)

Start Date: 2010.06.02

End Date:

2010.06.02

Start Time: 08:55:58

End Time:

15:38:37

Capacity: 8000.00 psig

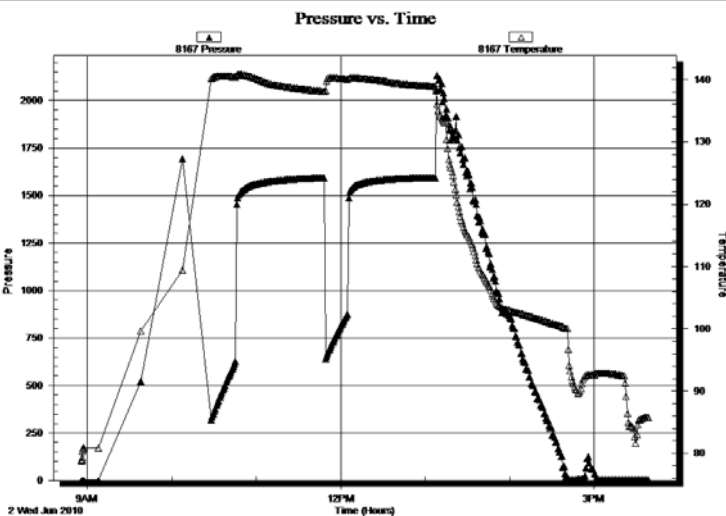
Last Calib.:

2010.06.02

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:Strong blow. B.O.B. in 2 1/2 mins.
ISI:Fair blow. Increase to 8 - 9".
FF:Strong blow. B.O.B. in 3 1/2mins.
FSI:Weak blow. 1 - 2".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume(bbl)
1865.00	GCMW 3%g 97%w /Rw.08ohms@80deg	24.19
80.00	GCMW 5%g 22%m 73%w	1.12
0.00	510 ft.of GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Messenger Petl.Inc.

Conrardy Seeds#1

525 S.Main
Kingman KS 67068

11-29s-9w Kingman KS

Job Ticket: 36890

DST#: 5

ATTN: Jon Messenger

Test Start: 2010.06.02 @ 08:53:53

Tool Information

Drill Pipe:	Length: 4307.00 ft	Diameter: 3.80 inches	Volume: 60.42 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 216.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose:	84000.00 lb
			<u>Total Volume: 61.48 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	73000.00 lb
Depth to Top Packer:	4536.00 ft			Final	78000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	6.00 ft				
Tool Length:	26.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4517.00	
Shut in tool	5.00			4522.00	
HMV	5.00			4527.00	
Packer	4.00			4531.00	20.00 Bottom Of Top Packer
Packer	5.00			4536.00	
Stubb	1.00			4537.00	
Recorder	0.00	8167	Inside	4537.00	
Recorder	0.00	8370	Outside	4537.00	
Bullnose	5.00			4542.00	6.00 Bottom Packers & Anchor Tool

Total Tool Length: 26.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Messenger Petl.Inc.

Conrardy Seeds#1

525 S.Main
Kingman KS 67068

11-29s-9w Kingman KS

ATTN: Jon Messenger

Job Ticket: 36890

DST#: 5

Test Start: 2010.06.02 @ 08:53:53

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

87000ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1865.00	GCW 3%g 97%w /Rw.08ohms @80deg	24.193
80.00	GCMW 5%g 22%m 73%w	1.122
0.00	510 ft.of GIP	0.000

Total Length: 1945.00 ft Total Volume: 25.315 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

Prepared For: **Messenger Petl.Inc.**

525 S.Main
Kingman KS 67068

ATTN: Jon Messenger

11-29s-9w Kingman KS

Conrardy Seeds#1

Start Date: 2010.06.01 @ 16:07:32

End Date: 2010.06.02 @ 00:39:47

Job Ticket #: 36889 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.02 @ 12:47:10

Messenger Petl.Inc.
Conrardy Seeds#1
11-29s-9w Kingman KS
DST # 4
Viola
2010.06.01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Messenger Petl.Inc.

525 S.Main
Kingman KS 67068

ATTN: Jon Messenger

Conrardy Seeds#1

11-29s-9w Kingman KS

Job Ticket: 36889

DST#: 4

Test Start: 2010.06.01 @ 16:07:32

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:20:17

Time Test Ended: 00:39:47

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 39

Interval: 4488.00 ft (KB) To 4494.00 ft (KB) (TVD)

Reference Elevations: 1711.00 ft (KB)

Total Depth: 4494.00 ft (KB) (TVD)

1702.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: 8167

Inside

Press@RunDepth: 611.18 psig @ 4489.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.06.01

End Date: 2010.06.02

Last Calib.: 2010.06.02

Start Time: 16:07:37

End Time: 00:39:47

Time On Btm: 2010.06.01 @ 18:19:02

Time Off Btm: 2010.06.01 @ 21:09:01

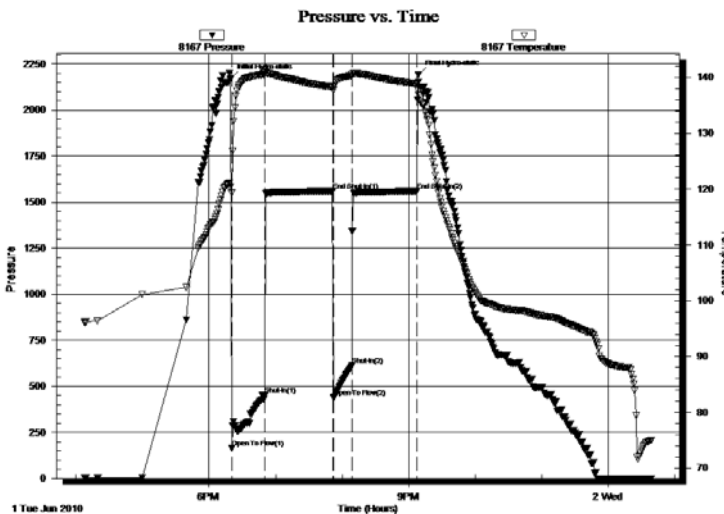
TEST COMMENT: IF:Strong blow. B.O.B. in 3 secs.GTS in 19 mins. (see gas flow report)

ISI:Strong blow. B.O.B.

FF:Strong blow. B.O.B. in 2 1/2 mins.(see gas flow report)

FSI:Strong blow. B.O.B.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2167.59	120.30	Initial Hydro-static
2	162.30	119.31	Open To Flow(1)
32	451.95	140.52	Shut-In(1)
93	1558.60	138.23	End Shut-In(1)
93	435.88	137.76	Open To Flow(2)
110	611.18	140.22	Shut-In(2)
169	1558.07	138.83	End Shut-In(2)
170	2190.24	137.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume(bbl)
600.00	SW/w few o specs./Rw.1ohms@72deg	6.45
90.00	SOCMW 2%o 7% m 91%w	1.26
800.00	CGO 38%g 62%o	11.22

Gas Rates

	Choke(inches)	Pressure (psig)	Gas Rate(Mcf/d)
First Gas Rate	0.25	6.00	32.36
Last Gas Rate	0.25	1.00	24.43
Max. Gas Rate	0.25	6.00	32.36

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Messenger Petl.Inc.

525 S.Main
Kingman KS 67068

ATTN: Jon Messenger

Conrardy Seeds#1

11-29s-9w Kingman KS

Job Ticket: 36889

DST#: 4

Test Start: 2010.06.01 @ 16:07:32

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:20:17

Time Test Ended: 00:39:47

Interval: 4488.00 ft (KB) To 4494.00 ft (KB) (TVD)

Total Depth: 4494.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 39

Reference Elevations: 1711.00 ft (KB)

1702.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8370

Outside

Press@RunDepth: psig @ 4489.00 ft (KB)

Start Date: 2010.06.01

End Date:

2010.06.02

Start Time: 16:04:22

End Time:

00:38:02

Capacity: 8000.00 psig

Last Calib.:

2010.06.02

Time On Btm:

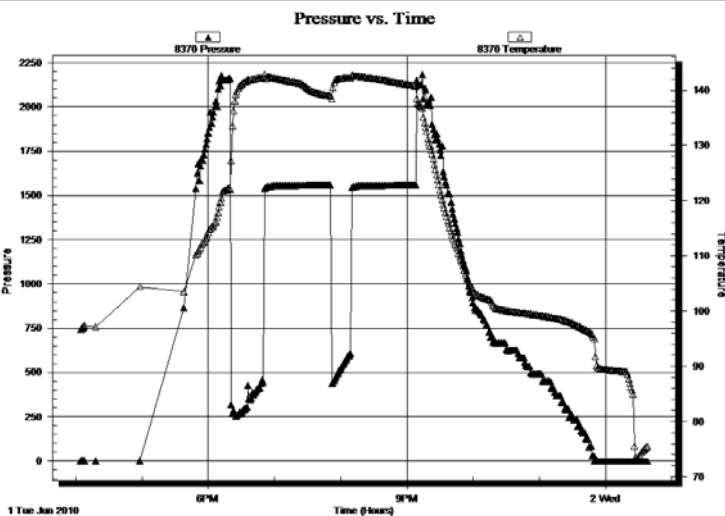
Time Off Btm:

TEST COMMENT: IF:Strong blow. B.O.B. in 3 secs.GTS in 19 mins. (see gas flow report)

ISI:Strong blow. B.O.B.

FF:Strong blow. B.O.B. in 2 1/2 mins.(see gas flow report)

FSI:Strong blow. B.O.B.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume(bbl)
600.00	SW/w few o specs./Rw.1ohms@72deg	6.45
90.00	SOCMW 2%o 7% m 91%w	1.26
800.00	CGO 38%g 62%o	11.22

* Recovery from multiple tests

Gas Rates

	Choke(inches)	Pressure (psig)	Gas Rate(Mcf/d)
First Gas Rate	0.25	6.00	32.36
Last Gas Rate	0.25	1.00	24.43
Max. Gas Rate	0.25	6.00	32.36



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Messenger Petl.Inc.

Conrardy Seeds#1

525 S.Main
Kingman KS 67068

11-29s-9w Kingman KS

ATTN: Jon Messenger

Job Ticket: 36889

DST#: 4

Test Start: 2010.06.01 @ 16:07:32

Tool Information

Drill Pipe:	Length: 4274.00 ft	Diameter: 3.80 inches	Volume: 59.95 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 216.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 61.01 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	72000.00 lb
Depth to Top Packer:	4488.00 ft			Final	77000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	6.00 ft				
Tool Length:	26.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4469.00	
Shut in tool	5.00			4474.00	
HMV	5.00			4479.00	
Packer	4.00			4483.00	20.00 Bottom Of Top Packer
Packer	5.00			4488.00	
Stubb	1.00			4489.00	
Recorder	0.00	8167	Inside	4489.00	
Recorder	0.00	8370	Outside	4489.00	
Bullnose	5.00			4494.00	6.00 Bottom Packers & Anchor Tool

Total Tool Length: 26.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Messenger Petl.Inc.

Conrardy Seeds#1

525 S.Main
Kingman KS 67068

11-29s-9w Kingman KS

Job Ticket: 36889

DST#: 4

ATTN: Jon Messenger

Test Start: 2010.06.01 @ 16:07:32

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37.4 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

78000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
600.00	SW/w few o specs./Rw. 1ohms @72deg	6.449
90.00	SOCMW 2%o 7%m 91%w	1.262
800.00	CGO 38%g 62%o	11.222

Total Length: 1490.00 ft

Total Volume: 18.933 bbl

Num Fluid Samples: 0

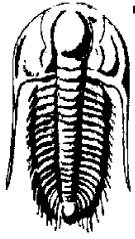
Num Gas Bombs: 1

Serial #: gp-4

Laboratory Name: caraway

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Messenger Petl. Inc.

Conrardy Seeds#1

525 S.Main
Kingman KS 67068

11-29s-9w Kingman KS

ATTN: Jon Messenger

Job Ticket: 36889

DST#: 4

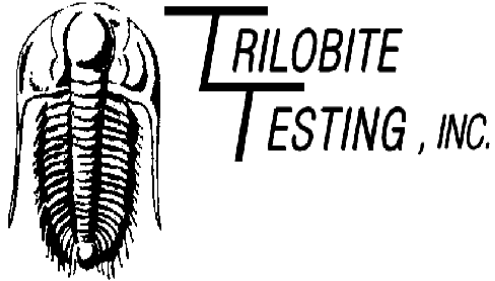
Test Start: 2010.06.01 @ 16:07:32

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	30	0.25	6.00	32.36
1	30	0.25	6.00	32.36
2	15	0.25	1.00	24.43



DRILL STEM TEST REPORT

Prepared For: **Messenger Petl.Inc.**

525 S.Main
Kingman KS 67068

ATTN: Jon Messenger

11-29s-9w Kingman KS

Conrardy Seeds#1

Start Date: 2010.05.31 @ 09:55:12

End Date: 2010.05.31 @ 17:46:12

Job Ticket #: 36888 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.02 @ 12:46:47

Messenger Petl.Inc.
Conrardy Seeds#1
11-29s-9w Kingman KS
DST # 3
Miss.
2010.05.31



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Messenger Petl.Inc.

525 S.Main
Kingman KS 67068

ATTN: Jon Messenger

Conrardy Seeds#1

11-29s-9w Kingman KS

Job Ticket: 36888

DST#: 3

Test Start: 2010.05.31 @ 09:55:12

GENERAL INFORMATION:

Formation: **Miss.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:44:12
 Time Test Ended: 17:46:12
 Interval: **4210.00 ft (KB) To 4222.00 ft (KB) (TVD)**
 Total Depth: 4222.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 39
 Reference Elevations: 1711.00 ft (KB)
 1702.00 ft (CF)
 KB to GR/CF: 9.00 ft

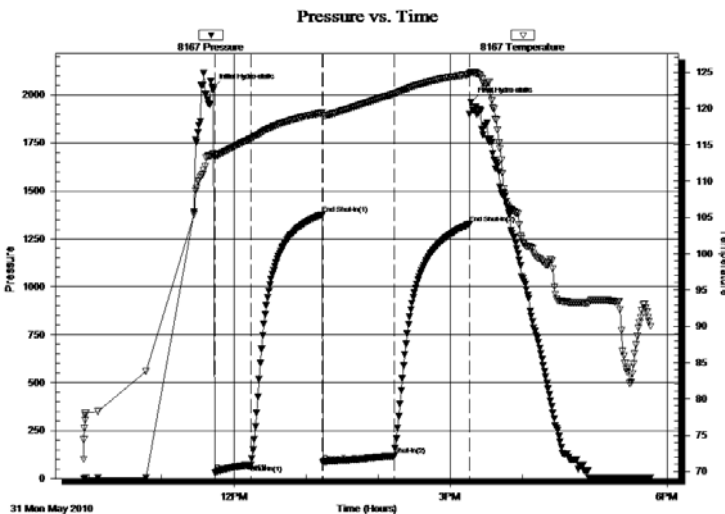
Serial #: 8167

Inside

Press@RunDepth: 117.74 psig @ 4211.00 ft (KB)
 Start Date: 2010.05.31 End Date: 2010.05.31
 Start Time: 09:55:17 End Time: 17:46:11
 Capacity: 8000.00 psig
 Last Calib.: 2010.05.31
 Time On Btm: 2010.05.31 @ 11:42:42
 Time Off Btm: 2010.05.31 @ 15:17:11

TEST COMMENT: IF:Strong blow. B.O.B. in 3 mins.
 IS:Weak blow. 1/2 - 1 1/2".
 FF:Strong blow. B.O.B. in 6 mins.
 FS:Weak blow. 1/2 - 2".

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2034.08	113.73	Initial Hydro-static
2	30.04	113.45	Open To Flow(1)
32	71.28	115.82	Shut-In(1)
91	1375.79	119.40	End Shut-In(1)
92	81.73	119.08	Open To Flow(2)
151	117.74	121.98	Shut-In(2)
214	1326.63	124.70	End Shut-In(2)
215	1961.16	124.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume(bbl)
125.00	SW/w o specs /Rw.055 ohms@85 deg	0.61
60.00	GOCMW 14%g 15%o 15%m 56%w	0.30
65.00	GOCWM 12%g 18%o 35%w 35%m	0.63
0.00	770 ft.of GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Messenger Petl.Inc.

525 S.Main
Kingman KS 67068

ATTN: Jon Messenger

Conrardy Seeds#1

11-29s-9w Kingman KS

Job Ticket: 36888

DST#: 3

Test Start: 2010.05.31 @ 09:55:12

GENERAL INFORMATION:

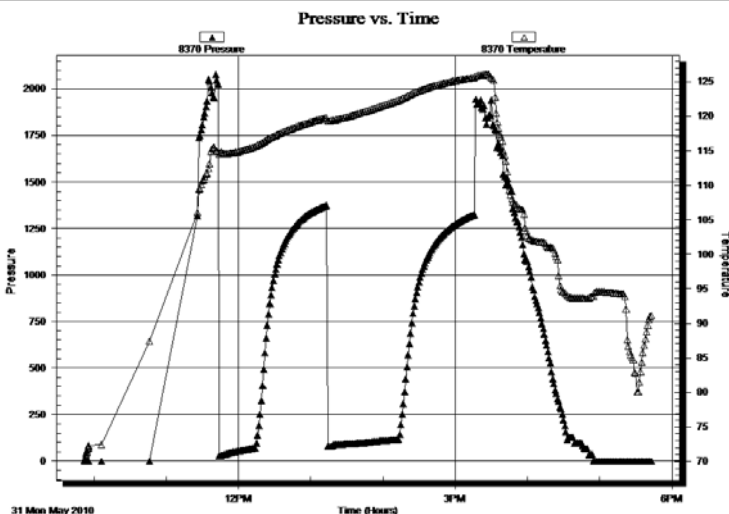
Formation: **Miss.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:44:12
 Time Test Ended: 17:46:12
 Interval: **4210.00 ft (KB) To 4222.00 ft (KB) (TVD)**
 Total Depth: 4222.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 39
 Reference Elevations: 1711.00 ft (KB)
 1702.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8370

Outside

Press@RunDepth: psig @ 4211.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.05.31 End Date: 2010.05.31 Last Calib.: 2010.05.31
 Start Time: 09:52:03 End Time: 17:43:42 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF:Strong blow. B.O.B. in 3 mins.
 ISI:Weak blow. 1/2 - 1 1/2".
 FF:Strong blow. B.O.B. in 6 mins.
 FSI:Weak blow. 1/2 - 2".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume(bbl)
125.00	SW/w o specs /Rw.055 ohms@85 deg	0.61
60.00	GOCMW 14%g 15%o 15%m 56%w	0.30
65.00	GOCWM 12%g 18%o 35%w 35%m	0.63
0.00	770 ft.of GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Messenger Petl.Inc.

Conrardy Seeds#1

525 S.Main
Kingman KS 67068

11-29s-9w Kingman KS

Job Ticket: 36888

DST#: 3

ATTN: Jon Messenger

Test Start: 2010.05.31 @ 09:55:12

Tool Information

Drill Pipe:	Length: 3988.00 ft	Diameter: 3.80 inches	Volume: 55.94 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 216.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose:	79000.00 lb
			<u>Total Volume: 57.00 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	69000.00 lb
Depth to Top Packer:	4210.00 ft			Final	70500.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	12.00 ft				
Tool Length:	32.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4191.00	
Shut in tool	5.00			4196.00	
HMV	5.00			4201.00	
Packer	4.00			4205.00	20.00 Bottom Of Top Packer
Packer	5.00			4210.00	
Stubb	1.00			4211.00	
Recorder	0.00	8167	Inside	4211.00	
Recorder	0.00	8370	Outside	4211.00	
Perforations	6.00			4217.00	
Bullnose	5.00			4222.00	12.00 Bottom Packers & Anchor Tool

Total Tool Length: 32.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Messenger Petl.Inc.

Conrardy Seeds#1

525 S.Main
Kingman KS 67068

11-29s-9w Kingman KS

Job Ticket: 36888

DST#: 3

ATTN: Jon Messenger

Test Start: 2010.05.31 @ 09:55:12

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

121000ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
125.00	SW/w o specs /Rw.055 ohms @85 deg	0.615
60.00	GOCMW 14%g 15%o 15%m 56%w	0.295
65.00	GOCWM 12%g 18%o 35%w 35%m	0.629
0.00	770 ft.of GIP	0.000

Total Length: 250.00 ft

Total Volume: 1.539 bbl

Num Fluid Samples: 0

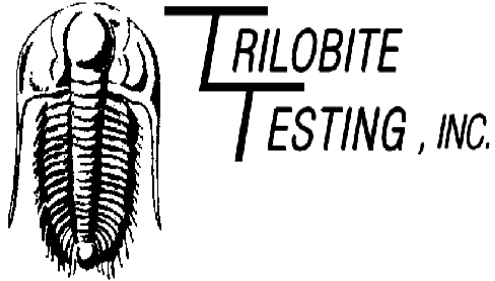
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

Prepared For: **Messenger Petl.Inc.**

525 S.Main
Kingman KS 67068

ATTN: Jon Messenger

11-29s-9w Kingman KS

Conrardy Seeds#1

Start Date: 2010.05.29 @ 06:13:10

End Date: 2010.05.29 @ 11:30:40

Job Ticket #: 36887 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.02 @ 12:46:22

Messenger Petl.Inc.
Conrardy Seeds#1
11-29s-9w Kingman KS
DST # 2
Douglas
2010.05.29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Messenger Petl.Inc.

525 S.Main
Kingman KS 67068

ATTN: Jon Messenger

Conrardy Seeds#1

11-29s-9w Kingman KS

Job Ticket: 36887

DST#: 2

Test Start: 2010.05.29 @ 06:13:10

GENERAL INFORMATION:

Formation: **Douglas**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:49:10

Time Test Ended: 11:30:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 39

Interval: 3376.00 ft (KB) To 3438.00 ft (KB) (TVD)

Reference Elevations: 1711.00 ft (KB)

Total Depth: 3438.00 ft (KB) (TVD)

1702.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: 8167 Inside

Press@RunDepth: 287.39 psig @ 3377.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.05.29

End Date: 2010.05.29

Last Calib.: 2010.05.29

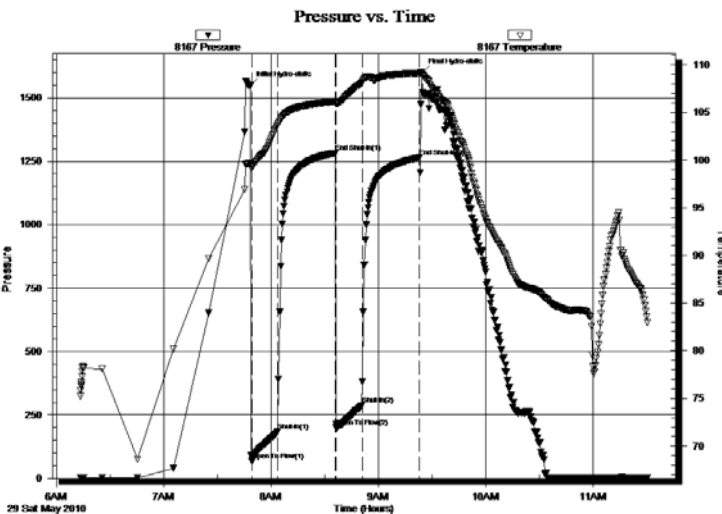
Start Time: 06:13:15

End Time: 11:30:39

Time On Btm: 2010.05.29 @ 07:48:10

Time Off Btm: 2010.05.29 @ 09:24:10

TEST COMMENT: IF:Strong blow. B.O.B. in 40 secs.
ISI:Fair blow. Increase to 8".
FF:Strong blow. B.O.B. in 35 secs.
FSI:Strong blow. B.O.B. GTS 1 min.in to FSIP.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1546.79	99.65	Initial Hydro-static
1	66.87	99.29	Open To Flow(1)
16	185.71	103.61	Shut-In(1)
48	1282.26	106.15	End Shut-In(1)
49	201.30	105.92	Open To Flow(2)
63	287.39	108.13	Shut-In(2)
95	1264.15	109.11	End Shut-In(2)
96	1595.50	109.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume(bbl)
260.00	SW /Rw.03 ohms@ 91deg.	1.68
185.00	GCMW 5%g 16%m 79%w	2.60
165.00	WM /w trace of oil.	2.31

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Messenger Petl.Inc.

525 S.Main
Kingman KS 67068

ATTN: Jon Messenger

Conrardy Seeds#1

11-29s-9w Kingman KS

Job Ticket: 36887

DST#: 2

Test Start: 2010.05.29 @ 06:13:10

GENERAL INFORMATION:

Formation: **Douglas**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:49:10

Time Test Ended: 11:30:40

Interval: 3376.00 ft (KB) To 3438.00 ft (KB) (TVD)

Total Depth: 3438.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 39

Reference Elevations: 1711.00 ft (KB)

1702.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8370 Outside

Press@RunDepth: psig @ 3377.00 ft (KB)

Start Date: 2010.05.29

End Date: 2010.05.29

Start Time: 06:10:00

End Time: 11:25:54

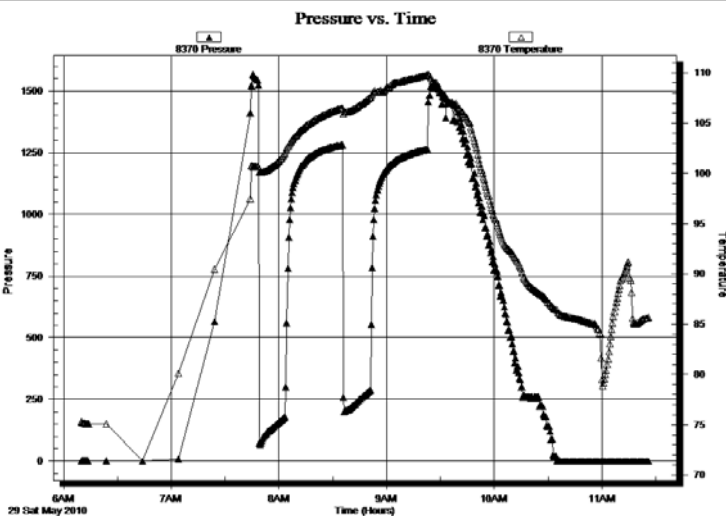
Capacity: 8000.00 psig

Last Calib.: 2010.05.29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:Strong blow. B.O.B. in 40 secs.
ISI:Fair blow. Increase to 8".
FF:Strong blow. B.O.B. in 35 secs.
FSI:Strong blow. B.O.B. GTS 1 min.in to FSIP.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume(bbl)
260.00	SW /Rw.03 ohms@ 91deg.	1.68
185.00	GCMW 5%g 16%m 79%w	2.60
165.00	WM /w trace of oil.	2.31

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Messenger Petl.Inc.

Conrardy Seeds#1

525 S.Main
Kingman KS 67068

11-29s-9w Kingman KS

ATTN: Jon Messenger

Job Ticket: 36887

DST#: 2

Test Start: 2010.05.29 @ 06:13:10

Tool Information

Drill Pipe:	Length: 3156.00 ft	Diameter: 3.80 inches	Volume: 44.27 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 216.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose:	77000.00 lb
			<u>Total Volume: 45.33 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	63000.00 lb
Depth to Top Packer:	3376.00 ft			Final	64500.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	62.00 ft				
Tool Length:	82.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3357.00	
Shut in tool	5.00			3362.00	
HMV	5.00			3367.00	
Packer	4.00			3371.00	20.00 Bottom Of Top Packer
Packer	5.00			3376.00	
Stubb	1.00			3377.00	
Recorder	0.00	8167	Inside	3377.00	
Recorder	0.00	8370	Outside	3377.00	
Perforations	5.00			3382.00	
Blank Spacing	33.00			3415.00	
Perforations	18.00			3433.00	
Bullnose	5.00			3438.00	62.00 Bottom Packers & Anchor Tool

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Messenger Petl.Inc.

Conrardy Seeds#1

525 S.Main
Kingman KS 67068

11-29s-9w Kingman KS

Job Ticket: 36887

DST#: 2

ATTN: Jon Messenger

Test Start: 2010.05.29 @ 06:13:10

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

102000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 18.73 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 19000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
260.00	SW /Rw.03 ohms @ 91deg.	1.679
185.00	GCMW 5%g 16%m 79%w	2.595
165.00	WM /w trace of oil.	2.315

Total Length: 610.00 ft

Total Volume: 6.589 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: