

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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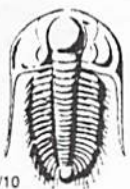
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Messenger Petroleum, Inc.
Well Name	Doc's Trust 1
Doc ID	1304613

Tops

Name	Top	Datum
Indian Cave SS	2476	-763
Howard	2908	-1195
Heebner	3423	-1711
Lansing	3629	-1916
Hertha	4015	-2302
Miss	4258	-2545
Kinderhook	4341	-2628
Viola	4526	-2813
Simpson	4595	2882-
LTD	4680	-2967



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **57931** 22871

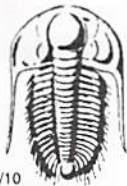
Well Name & No. Doc's TRUST #1 Test No. 1 Date 1-7-16
 Company Messenger PETC- INC. Elevation 1714 KB 1704 GL
 Address 525 S. MAIN ST. KINGMAN KS, 67068
 Co. Rep / Geo. Jon Messenger Rig HARDT DRUG #1
 Location: Sec. 20 Twp. 29S Rge. 9W Co. KINGMAN State Ks

Interval Tested 3977 - 3995' Zone Tested Swope
 Anchor Length 18' Drill Pipe Run 3846' Mud Wt. 9.1
 Top Packer Depth 3972' Drill Collars Run 120' Vis 52
 Bottom Packer Depth 3977' Wt. Pipe Run 0 WL 9.0cc
 Total Depth 3995' Chlorides 6,000 ppm System LCM ---
 Blow Description IF; Weak blow. 1/2 - 3 1/2" ISI; ~~Weak~~ blow. 1/4"
FF; Weak blow. 1/2 - 3/4" FSI; ~~Weak~~ blow. 1/4"

Rec	Feet of	%gas	%oil	%water	%mud
	<u>Trace of GIP</u>				
Rec <u>20</u>	Feet of <u>OCM</u>		<u>5</u>	<u>95</u>	
Rec <u>120</u>	Feet of <u>MW/w o specs</u>		<u>84</u>	<u>16</u>	
Rec _____	Feet of _____				
Rec _____	Feet of _____				

Rec Total 140 BHT 122° Gravity N/A API RW -12 @ 49 °F Chlorides 93,000 ppm
 (A) Initial Hydrostatic 1990 Test 1050 T-On Location 0051
 (B) First Initial Flow 15 Jars _____ T-Started 0159
 (C) First Final Flow 46 Safety Joint _____ T-Open 0407
 (D) Initial Shut-In 1536 Circ Sub _____ T-Pulled 0742
 (E) Second Initial Flow 52 Hourly Standby _____ T-Out 0948
 (F) Second Final Flow 82 Mileage (85) Comments _____
 (G) Final Shut-In 1506 Sampler _____
 (H) Final Hydrostatic 1928 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Extra Packer _____
 Initial Shut-In 60 Extra Recorder _____
 Final Flow 60 Day Standby _____
 Final Shut-In 60 Accessibility _____
 Sub Total 1135 Total 1135 MP/DST Disc't _____

Approved By [Signature] Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57932

Well Name & No. Doc's Trust #1 Test No. 2 Date 1-7-16
 Company MESSENGER PETL. INC. Elevation 1714 KB 1704 GL
 Address 525 S. MAIN ST. KINGMAN KS. 67068
 Co. Rep / Geo. Jon Messenger Rig HARDT DRUG #1
 Location: Sec. 20 Twp. 29S Rge. 9W Co. KINGMAN State KS.

Interval Tested 4012-4027' Zone Tested HERTHA
 Anchor Length 15' Drill Pipe Run 3877' Mud Wt. 9.3
 Top Packer Depth 4007' Drill Collars Run 120' Vis 56
 Bottom Packer Depth 4012' Wt. Pipe Run 0 WL 11.2 cc
 Total Depth 4027' Chlorides 8,000 ppm System LCM 0
 Blow Description IF: Weak to fair blow 1-5". FSI: Weak blow 2-4".

FF: Strong blow. B.O.B. in 21 mins. FSI: Fair blow, 3-7".

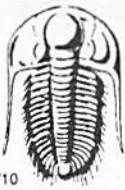
Rec	Feet of	%gas	%oil	%water	%mud
<u>3300</u>	<u>Gas in pipe</u>				
<u>35</u>	<u>Gmco</u>	<u>42%</u>	<u>47%</u>	<u>11%</u>	<u>11%</u>
<u>184</u>	<u>Gmco GMEWCO</u>	<u>35%</u>	<u>30%</u>	<u>23%</u>	<u>12%</u>
<u>251</u>	<u>SW/w opens</u>				

Rec Total 470 Fluid BHT 126° Gravity N/A API RW 17 @ 45° F Chlorides 71,000 ppm

(A) Initial Hydrostatic 1966 Test 1150 T-On Location 1854
 (B) First Initial Flow 41 Jars _____ T-Started 1915
 (C) First Final Flow 128 Safety Joint _____ T-Open 2104
 (D) Initial Shut-In 1519 Circ Sub _____ T-Pulled 0039
 (E) Second Initial Flow 138 Hourly Standby _____ T-Out 0404
 (F) Second Final Flow 255 Mileage (85) Comments _____
 (G) Final Shut-In 1514 Sampler _____
 (H) Final Hydrostatic 1911 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1235
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1235

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57933

4/10

Well Name & No. Doc's TRUST #1 Test No. 3 Date 1-9-16
 Company MESSINGER PETL. INC. Elevation 1714 KB 1704 GL
 Address 525 S. MAIN ST. KINGMAN KS. 67068
 Co. Rep / Geo. JON MESSINGER Rig HARDT DRUG. #1
 Location: Sec. 20 Twp. 29^S Rge. 9^W Co. KINGMAN State KS.

Interval Tested 4263 - 4277' Zone Tested MISS.
 Anchor Length 14' Drill Pipe Run 4155 Mud Wt. 9.4
 Top Packer Depth 4258' Drill Collars Run 120 Vis 64
 Bottom Packer Depth 4263' Wt. Pipe Run 0 WL 10.8cc
 Total Depth 4277' Chlorides 8,000 ppm System LCM ---
 Blow Description IF: Weak to fair blow 1-7". FSI: No blow.

FF: Weak to fair blow. 1-5 1/2". FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>Gas in pipe</u>				
<u>30</u>	<u>SOCMW</u>		<u>1</u>	<u>70</u>	<u>29</u>
<u>120</u>	<u>SW/w o spurs.</u>				

Rec Total 150 BHT 128° Gravity N/A API RW .15 @ 37° F Chlorides 103,000 ppm
 (A) Initial Hydrostatic 2145 Test 1150 T-On Location 0915
 (B) First Initial Flow 19 Jars _____ T-Started 0942
 (C) First Final Flow 63 Safety Joint _____ T-Open 1207
 (D) Initial Shut-In 1525 Circ Sub _____ T-Pulled 1540
 (E) Second Initial Flow 69 Hourly Standby _____ T-Out 1731
 (F) Second Final Flow 100 Mileage (85) Comments _____
 (G) Final Shut-In 1510 Sampler _____
 (H) Final Hydrostatic 2113 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1235
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1235

Approved By [Signature] Our Representative Cary Pivota

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57934

Well Name & No. Doc's TRUST #1 Test No. 4 Date 1-11-16
 Company MESSINGER PETL. INC. Elevation 1714 KB 1704 GL
 Address 525 S. MAIN ST. KINGMAN KS. 67068
 Co. Rep / Geo. Jon MESSINGER Rig HARDT DRUG. #1
 Location: Sec. 20 Twp. 29S Rge. 9W Co. KINGMAN State Ks.

Interval Tested 4517 - 4535 Zone Tested VIOLA
 Anchor Length 18 Drill Pipe Run 4402 Mud Wt. 9.3
 Top Packer Depth 4512' Drill Collars Run 120 Vis 60
 Bottom Packer Depth "SWALE" 4517 Wt. Pipe Run 0 WL 12.0cc
 Total Depth 4535' Chlorides 9500 ppm System LCM ---
 Blow Description IF: Weak below. 1 - 3 1/2". FSI: No blow.

FF: Weak to fair below. 1 - 8". FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>SOCWM</u>	<u>1</u>	<u>35</u>	<u>64</u>	
<u>180</u>	<u>MW</u>		<u>95</u>	<u>5</u>	

Rec Total 215 BHT 136° Gravity N/A API RW 20 @ 40° F Chlorides 62,000 ppm
 (A) Initial Hydrostatic 2260 Test 1150 T-On Location 0020
 (B) First Initial Flow 18 Jars _____ T-Started 0047
 (C) First Final Flow 64 Safety Joint _____ T-Open 0249
 (D) Initial Shut-In 1509 Circ Sub _____ T-Pulled 0624
 (E) Second Initial Flow 70 Hourly Standby _____ T-Out 0846
 (F) Second Final Flow 107 Mileage (2.5) Comments _____
 (G) Final Shut-In 1503 Sampler _____
 (H) Final Hydrostatic 2231 Straddle _____
 Shale Packer * 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1485
 Sub Total 1485 MP/DST Disc't _____

Approved By [Signature]

Our Representative [Signature]

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QUALITY WELL SERVICE, INC.

6448

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
123015	20	29s	09w	Kingman	KS	400PM	6:00PM
Lease Doc's Trust		Well No. 1		Location Willowdale KS, 1 1/2 W, 3/4 S, 6 in to			
Contractor Handt				Owner Messenger Petro			
Type Job Surface				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size 12 1/4		T.D. 218		Charge To			
Csg. 8 5/8		23 #		Depth 207 + 45		Street	
Tbg. Size		Depth		City State			
Tool		Depth		City State			
Cement Left in Csg.		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace 12 1/2 Bbls Fresh		Cement Amount Ordered 22 5sx 60: 40: 2 1/2 gal + 3 1/2 cc			
EQUIPMENT							
Pumptrk 8	No.	Mike B		Common 135			
Bulktrk 10	No.	Dillon		Poz. Mix 90			
Bulktrk	No.			Gel. 4			
Pickup	No.	David F		Calcium 7			
JOB SERVICES & REMARKS							
Rat Hole				Hulls			
Mouse Hole				Salt			
Centralizers				Flowseal			
Baskets				Kol-Seal 56.25			
D/V or Port Collar				Mud CLR 48			
Pipe on BHM, Break Circ, w/ truck				CFL-117 or CD110 CAF 38			
Pump Spacer, Mix 225 sx cement				Sand			
Stop Reverse Plug, Start Disp. w/ Fresh H ₂ O, wash up truck, Stop Pump at 12 1/2 Bbls total Disp., Shut in, Cement Did Circ.				Handling 236			
				Mileage 40			
FLOAT EQUIPMENT							
				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down 18 1/2 Wooder Cup Plug			
				Service supervisor			
				LMV 40			
				Pumptrk Charge Surface			
				Mileage 40 x 2			
				Tax			
				Discount			
				Total Charge			
Signature T. Hanks							

BASIC

energy services, L.P.

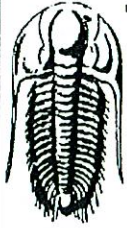
TREATMENT REPORT

Customer messenger Petroleum, Inc		Lease No.		Date 1/17/2016	
Lease Doc's Trust		Well # 1			
Field Order # 12592	Station Prg+7, 1cs	Casing 5 1/2	Depth 4681	County Kinsmen	State KS
Type Job PWW - LOW STRAWG			Formation TD-4680	Legal Description 20-29-9	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2								
Depth 4681	Depth	From	To	Pre Pad	Max		5 Min.	
Volume 11 1/2	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 7097	Packer Depth	From	To	Flush Freshwater	Gas Volume		Total Load	

Customer Representative John Messenger			Station Manager Kevin Gordley			Treater Darin Franklin		
Service Units	92911	84981	19843	19826	19918			
Driver Names	Dan	Ed	Ed	McGraw	McGraw			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:00pm					on location / S/Serv meeting
					G- 2, 4, 10, 11, 14, 17, 18
					4681' 5 1/2 casing
					150 SK DD2, 15.3 pps, 136 void, 5.52 water
11:45pm	400		5	4	Pump 5 bbls water
	400		12	4	12 bbls mud Flush
	400		5	4	5 bbls water
	400		6	5	mix 25 SK SCS sensor cement
	400		36	5	mix 150 SK DD2 cement
					Shut down
					Wash pump & lines
					Release Plug
	200		0	6	Start Displacement
	400		75	6	Lift Pressure
	500		100	3	Slow Rate
12:25pm	1,500		106	3	Bump plug
					Flow - Hold
	100		7	3	Plug Reg hole
					Wash up
1:30pm					Job complete / Darin & Crew Thank you!!!



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Messenger Petroleum Inc.

20-29s-9w Kingman, KS

525 S. Main St.
Kingman KS. 67068

Doc's Trust #1

Job Ticket: 57931

DST#: 1

ATTN: Jon Messenger

Test Start: 2016.01.07 @ 01:59:58

GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:07:28

Time Test Ended: 09:48:28

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pavoteaux

Unit No: 80

Interval: 3977.00 ft (KB) To 3995.00 ft (KB) (TVD)

Total Depth: 3995.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1714.00 ft (KB)

1704.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 9124

Outside

Press@RunDepth: 81.96 psig @ 3978.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.01.07 End Date: 2016.01.07

Last Calib.: 2016.01.07

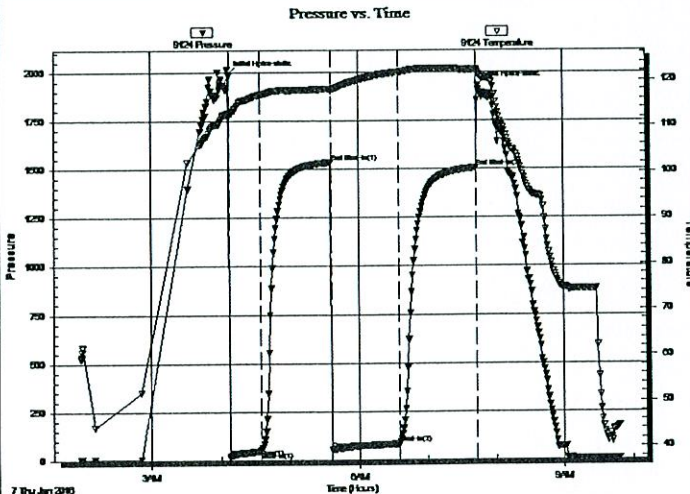
Start Time: 02:00:03 End Time: 09:48:27

Time On Btm: 2016.01.07 @ 04:06:13

Time Off Btm: 2016.01.07 @ 07:44:13

TEST COMMENT: IF:Weak blow . 1/2 - 3 1/2".
IS:Weak blow . 1/4"
FF:Weak blow . 1/2 - 3/4".
FS:Weak blow . 1/4".

PRESSURE SUMMARY



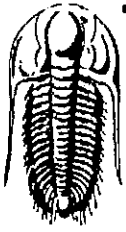
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1990.25	112.55	Initial Hydro-static
2	15.42	112.21	Open To Flow (1)
28	46.31	116.76	Shut-In(1)
90	1536.06	118.01	End Shut-In(1)
91	52.41	117.57	Open To Flow (2)
149	81.96	121.62	Shut-In(2)
217	1506.31	122.10	End Shut-In(2)
218	1928.41	121.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW/ w o specs 16% m 84% w	0.59
20.00	OCM 5% o 95% m/ trace of GIP	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Messenger Petroleum Inc.

20-29s-9w Kingman,KS

525 S. Main St.
Kingman KS. 67068

Doc's Trust #1

Job Ticket: 57931

DST#: 1

ATTN: Jon Messenger

Test Start: 2016.01.07 @ 01:59:58

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:

93000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	MW/ w o specs 16%m 84%w	0.590
20.00	OCM 5%o 95%mV trace of GIP	0.281

Total Length: 140.00 ft Total Volume: 0.871 bbl

Num Fluid Samples: 0

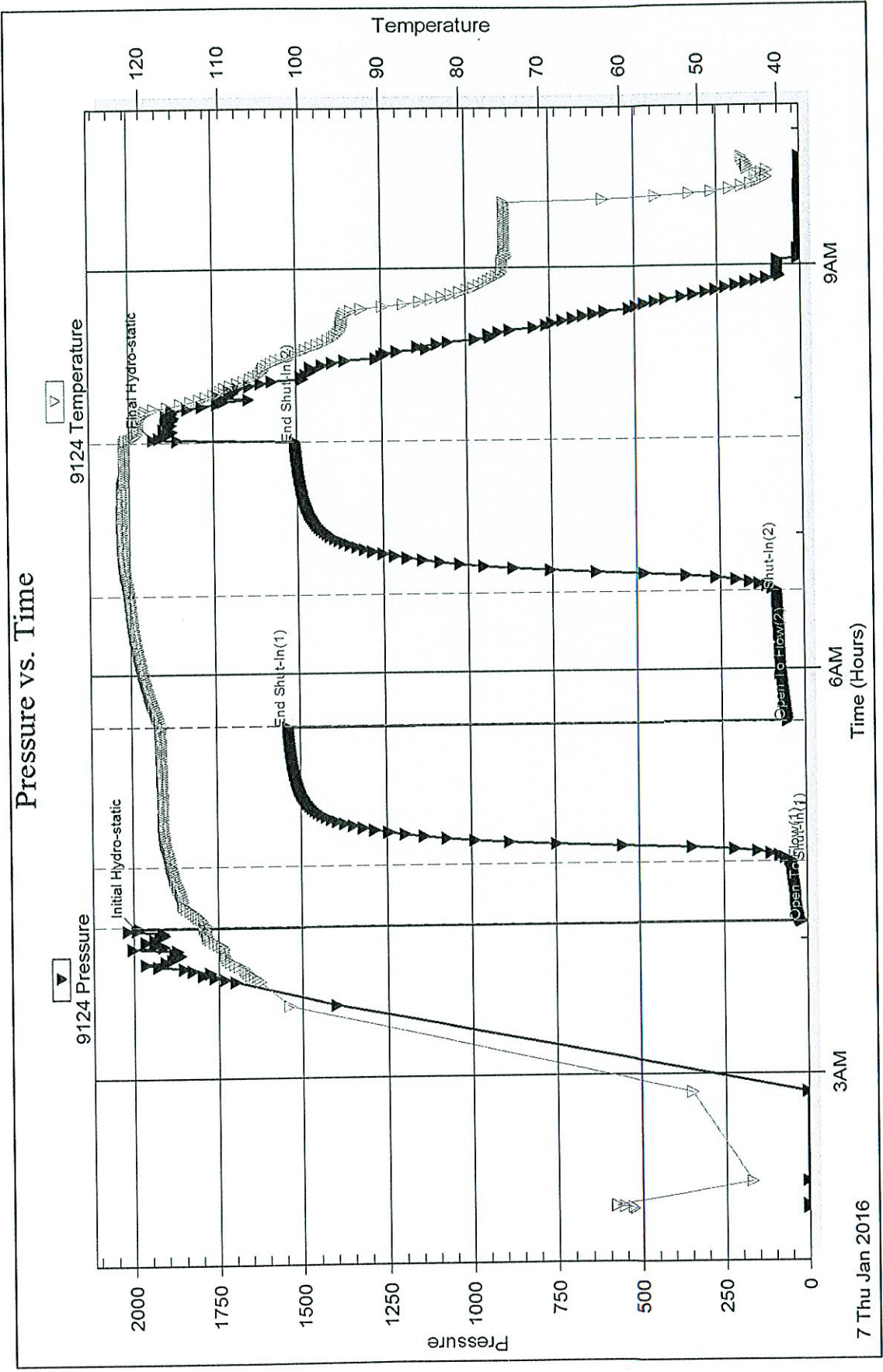
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .12ohms @ 49deg





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Messenger Petroleum Inc.

20-29s-9w Kingman, KS

525 S. Main St.
Kingman KS. 67068

Doc's Trust #1

Job Ticket: 57932

DST#: 2

ATTN: Jon Messenger

Test Start: 2016.01.07 @ 19:15:35

GENERAL INFORMATION:

Formation: **Hertha**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:04:20

Time Test Ended: 04:04:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 80

Interval: 4012.00 ft (KB) To 4027.00 ft (KB) (TVD)

Total Depth: 4027.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1714.00 ft (KB)

1704.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 9124 Outside

Press@RunDepth: 255.08 psig @ 4013.00 ft (KB)

Start Date: 2016.01.07

End Date:

2016.01.08

Capacity: 8000.00 psig

Last Calib.: 2016.01.08

Start Time: 19:15:40

End Time:

04:04:20

Time On Btm: 2016.01.07 @ 21:02:50

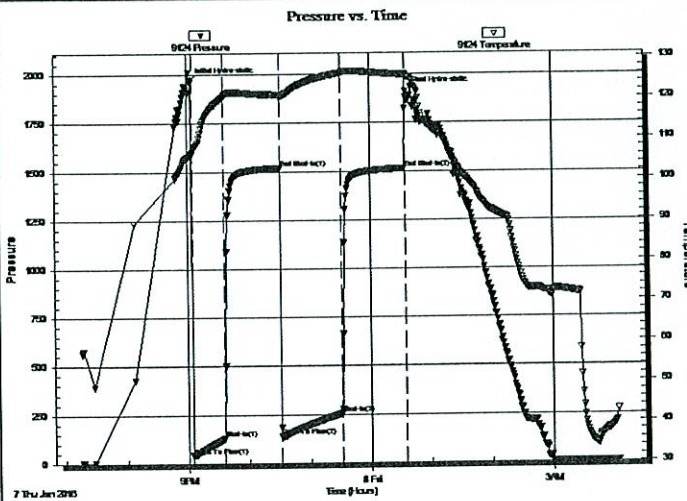
Time Off Btm: 2016.01.08 @ 00:35:20

TEST COMMENT: IF: Weak to fair blow . 1 - 5"

IS: Weak blow . 2 - 4"

FF: Strong blow . B.O.B. in 21 mins.

FS: Fair blow . 3 - 7"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1965.70	105.93	Initial Hydro-static
2	41.13	105.93	Open To Flow (1)
33	127.69	120.31	Shut-In(1)
89	1518.75	120.80	End Shut-In(1)
89	137.77	120.40	Open To Flow (2)
149	255.08	126.05	Shut-In(2)
212	1513.83	125.61	End Shut-In(2)
213	1911.04	125.59	Final Hydro-static

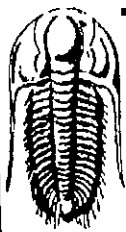
Recovery

Length (ft)	Description	Volume (bbl)
251.00	SW/w o specs	2.43
184.00	GM&WCO 35%g 12%m 23%w 30%o	2.58
35.00	GMCO 42%g 11%m 47%o	0.49
0.00	3300 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

FLUID SUMMARY

Messenger Petroleum Inc. 20-29s-9w Kingman, KS
 525 S. Main St. Doc's Trust #1
 Kingman KS. 67068 Job Ticket: 57932 DST#: 2
 ATTN: Jon Messenger Test Start: 2016.01.07 @ 19:15:35

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: 71000 ppm	
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.17 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
251.00	SWw o specs	2.428
184.00	GM&WCO 35%g 12%m 23%w 30%o	2.581
35.00	GMCO 42%g 11%m 47%o	0.491
0.00	3300 ft.of GIP	0.000

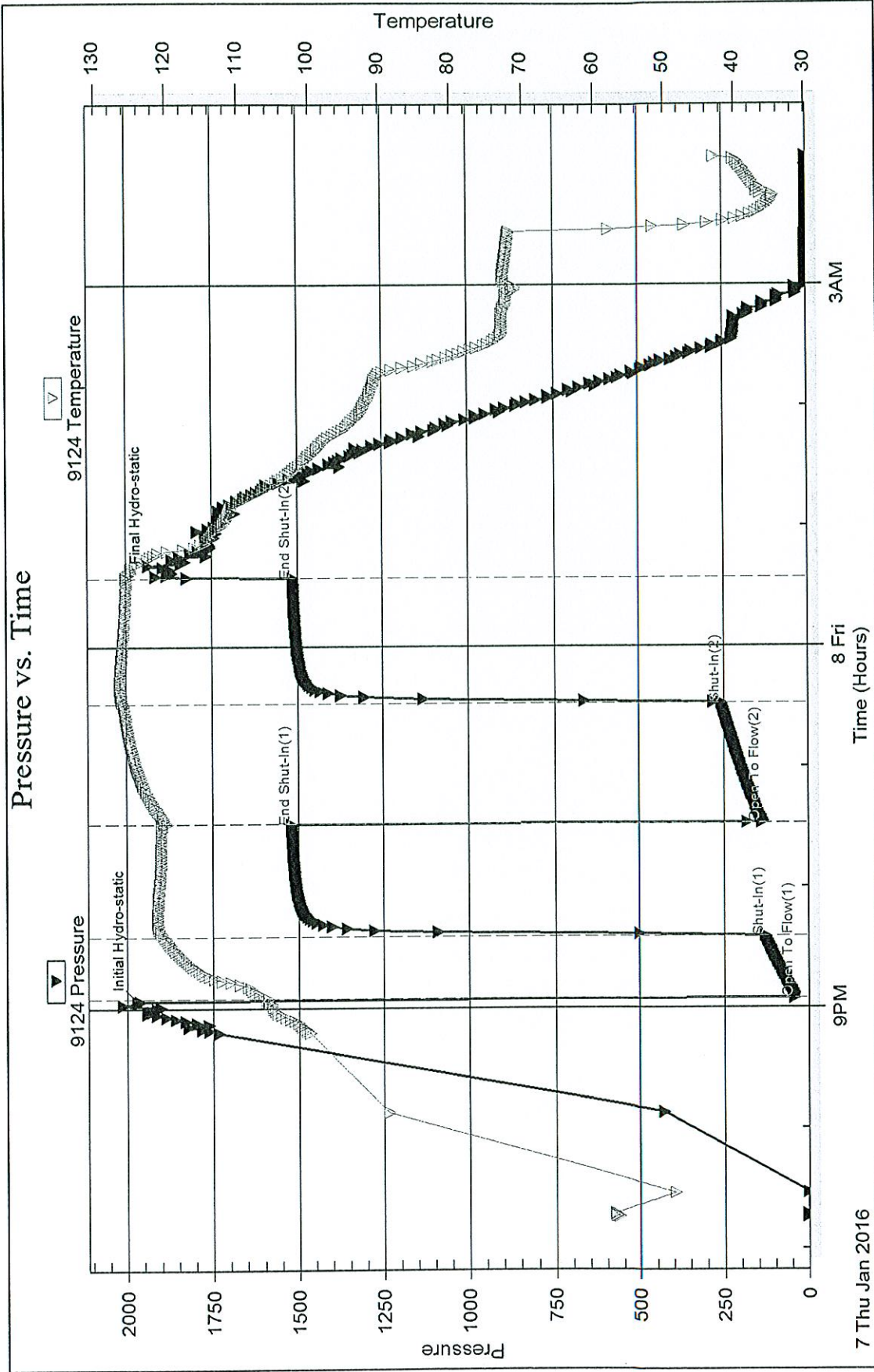
Total Length: 470.00 ft Total Volume: 5.500 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments: Rw .17ohms@45deg

Serial #: 9124

Outside Messenger Petroleum Inc.

Doc's Trust #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 57932

Printed: 2016.01.13 @ 08:40:06



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Messenger Petroleum Inc.

20-29s-9w Kingman, KS

525 S. Main St.
Kingman KS. 67068

Doc's Trust #1

Job Ticket: 57933

DST#: 3

ATTN: Jon Messenger

Test Start: 2016.01.09 @ 09:42:43

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:07:43
 Time Test Ended: 17:31:28

Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 80

Interval: 4263.00 ft (KB) To 4277.00 ft (KB) (TVD)
 Total Depth: 4277.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1714.00 ft (KB)
 1704.00 ft (CF)
 KB to GR/CF: 10.00 ft

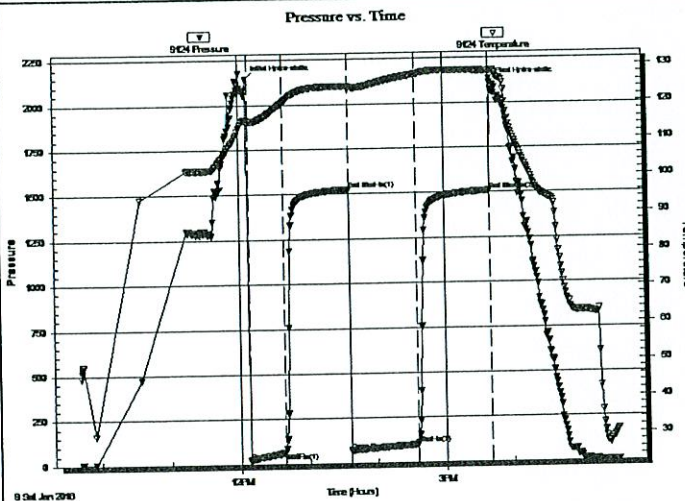
Serial #: 9124

Outside

Press@RunDepth: 99.78 psig @ 4264.00 ft (KB)
 Start Date: 2016.01.09 End Date: 2016.01.09
 Start Time: 09:42:48 End Time: 17:31:27

Capacity: 8000.00 psig
 Last Calib.: 2016.01.09
 Time On Btm: 2016.01.09 @ 12:06:43
 Time Off Btm: 2016.01.09 @ 15:40:58

TEST COMMENT: IF:Weak to fair blow . 1 - 7".
 IS:No blow .
 FF:Weak to fir blow . 1 - 5 1/2".
 FSI:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2145.22	115.57	Initial Hydro-static
1	18.62	114.94	Open To Flow (1)
33	62.83	120.27	Shut-In(1)
90	1524.83	124.56	End Shut-In(1)
91	68.67	124.15	Open To Flow (2)
149	99.78	127.54	Shut-In(2)
214	1510.09	128.27	End Shut-In(2)
215	2112.53	128.39	Final Hydro-static

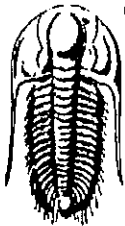
Recovery

Length (ft)	Description	Volume (bbl)
120.00	SW/w o specs/ Rw . 15ohms@37deg	0.59
30.00	SOCMW 1%o 29% m 70%w	0.42
0.00	35 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

FLUID SUMMARY

Messenger Petroleum Inc.

20-29s-9w Kingman, KS

525 S. Main St.
Kingman KS. 67068

Doc's Trust #1

Job Ticket: 57933

DST#: 3

ATTN: Jon Messenger

Test Start: 2016.01.09 @ 09:42:43

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:

103000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	SW/w o specs/ Rw .15ohms@37deg	0.590
30.00	SOCMW 1%o 29%m 70%w	0.421
0.00	35 ft. of GIP	0.000

Total Length: 150.00 ft

Total Volume: 1.011 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

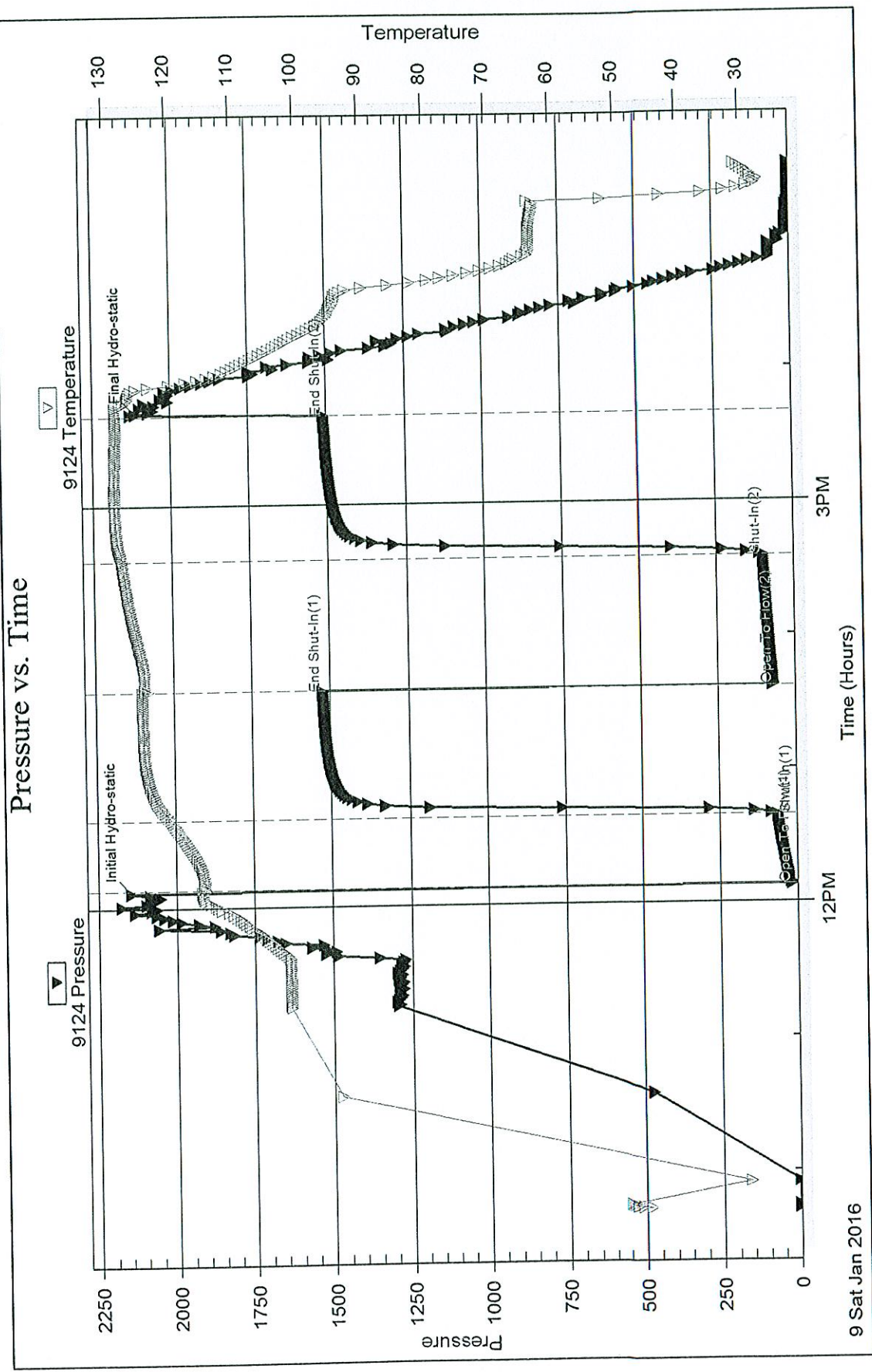
Serial #: none

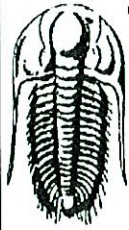
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Messenger Petroleum Inc.

20-29s-9w Kingman, KS

525 S. Main St.
Kingman KS. 67068

Doc's Trust #1

Job Ticket: 57934

DST#: 4

ATTN: Jon Messenger

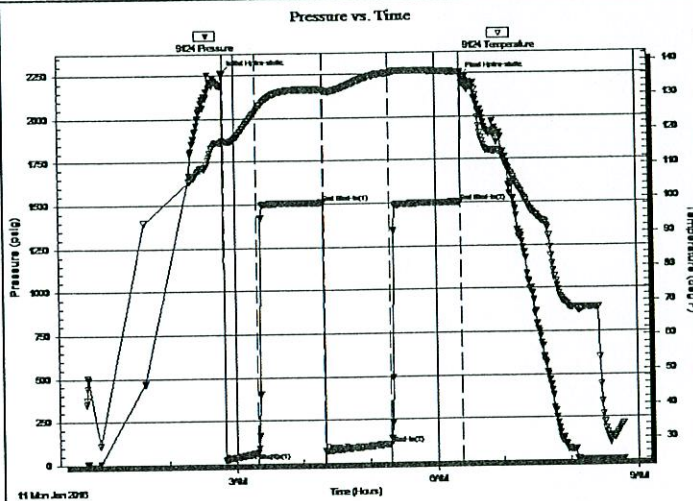
Test Start: 2016.01.11 @ 00:47:23

GENERAL INFORMATION:

Formation: Viola
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:49:53
 Time Test Ended: 08:46:23
 Interval: 4517.00 ft (KB) To 4535.00 ft (KB) (TVD)
 Total Depth: 4535.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 80
 Reference Elevations: 1714.00 ft (KB)
 1704.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 9124 Outside
 Press@RunDepth: 107.24 psig @ 4518.00 ft (KB)
 Start Date: 2016.01.11 End Date: 2016.01.11
 Start Time: 00:47:28 End Time: 08:46:22
 Capacity: 8000.00 psig
 Last Calib.: 2016.01.11
 Time On Btm: 2016.01.11 @ 02:48:53
 Time Off Btm: 2016.01.11 @ 06:23:08

TEST COMMENT: IF:Weak blow . 1 - 3 1/2".
 IS:No blow .
 FF:Weak to fair blow . 1 - 8".
 FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2259.83	116.97	Initial Hydro-static
1	17.99	116.63	Open To Flow (1)
31	64.47	125.61	Shut-In(1)
91	1508.61	131.87	End Shut-In(1)
92	69.65	131.25	Open To Flow (2)
150	107.24	136.51	Shut-In(2)
214	1503.31	136.55	End Shut-In(2)
215	2231.46	136.56	Final Hydro-static

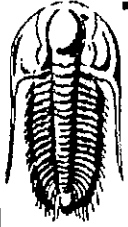
Recovery

Length (ft)	Description	Volume (bbl)
180.00	MW 5% m 95% w /Rw .20ohms@40deg	1.43
35.00	SOCWM 1% o 35% w 64% m	0.49

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Messenger Petroleum Inc.

20-29s-9w Kingman, KS

525 S. Main St.
Kingman KS. 67068

Doc's Trust #1

Job Ticket: 57934

DST#: 4

ATTN: Jon Messenger

Test Start: 2016.01.11 @ 00:47:23

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 11.99 in³
Resistivity: 0.00 ohm.m
Salinity: 9500.00 ppm
Filter Cake: 0.20 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 67000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	MW 5% _m 95% _w /Rw .20ohms@40deg	1.432
35.00	SOCWM 1% _o 35% _w 64% _m	0.491

Total Length: 215.00 ft Total Volume: 1.923 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

