

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](mailto: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	Daystar Petroleum, Inc.
Well Name	Deutscher B 1-2
Doc ID	1298230

All Electric Logs Run

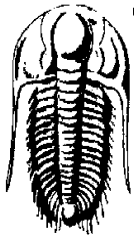
Microlog
Gamma Ray/Caliper
Sonic
Neutron Density
Dual Induction

Form	ACO1 - Well Completion
Operator	Daystar Petroleum, Inc.
Well Name	Deutscher B 1-2
Doc ID	1298230

Tops

Name	Top	Datum
Anhydrite	1452	679
Stotler	3016	-885
Topeka	3188	-1057
Heebner	3449	-1318
Lansing	3490	-1359
BKC	3737	-1606
Pawnee	3822	-1691
Cherokee Sand	3893	-1762
Arbuckle	3974	-1843





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Daystar Petroleum Inc.

**2 15s 21w Trego**

522 N Main St.  
P.O. Box 560  
Eureka KS 67045-0560  
ATTN: Brad Rine

**Deutscher " B " 1-2**

Job Ticket: 64765

**DST#: 1**

Test Start: 2016.03.12 @ 23:07:00

## GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:03:45

Time Test Ended: 06:32:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

**Interval: 3833.00 ft (KB) To 3855.00 ft (KB) (TVD)**

Reference Elevations: 2131.00 ft (KB)

Total Depth: 3855.00 ft (KB) (TVD)

2122.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 8289 Outside**

Press @ Run Depth: 67.97 psig @ 3834.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.03.12

End Date:

2016.03.13

Last Calib.:

2016.03.13

Start Time: 23:07:02

End Time:

06:32:30

Time On Btm:

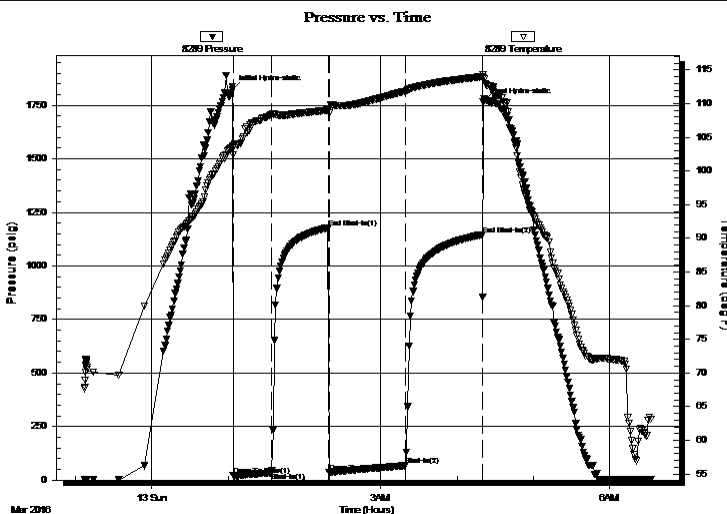
2016.03.13 @ 01:03:30

Time Off Btm:

2016.03.13 @ 04:20:30

**TEST COMMENT:** 30-IF- Surface Blow Building to 1 1/4in.  
45-ISI- No Blow  
60-FF- Surface Blow in 5min. Building to 1 1/2in.  
60-FSI- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1823.63	103.69	Initial Hydro-static
1	22.08	102.44	Open To Flow (1)
31	34.62	108.36	Shut-In(1)
75	1178.16	109.05	End Shut-In(1)
76	37.15	108.60	Open To Flow (2)
136	67.97	111.83	Shut-In(2)
197	1146.15	114.00	End Shut-In(2)
197	1764.80	114.34	Final Hydro-static

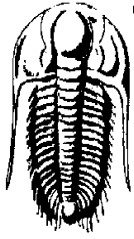
## Recovery

Length (ft)	Description	Volume (bbl)
90.00	MCW 30% m 70% w	0.44

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Daystar Petroleum Inc.

**2 15s 21w Trego**

522 N Main St.  
P.O. Box 560  
Eureka KS 67045-0560  
ATTN: Brad Rine

**Deutscher " B " 1-2**

Job Ticket: 64765

**DST#: 1**

Test Start: 2016.03.12 @ 23:07:00

## 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:

33000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 6.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	MCW 30% <sub>m</sub> 70% <sub>w</sub>	0.443

Total Length: 90.00 ft      Total Volume: 0.443 bbl

Num Fluid Samples: 0

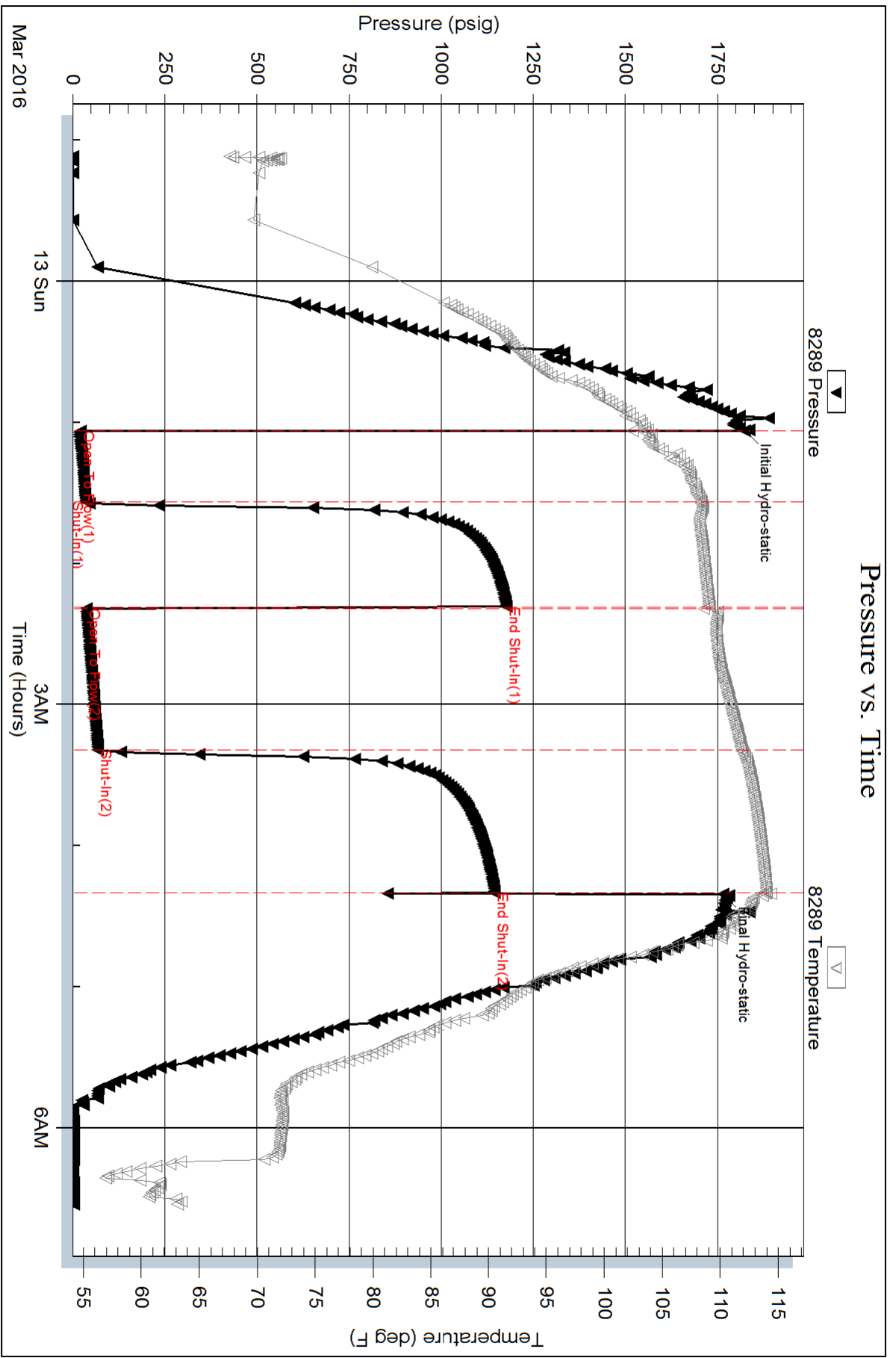
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .254 @ 58



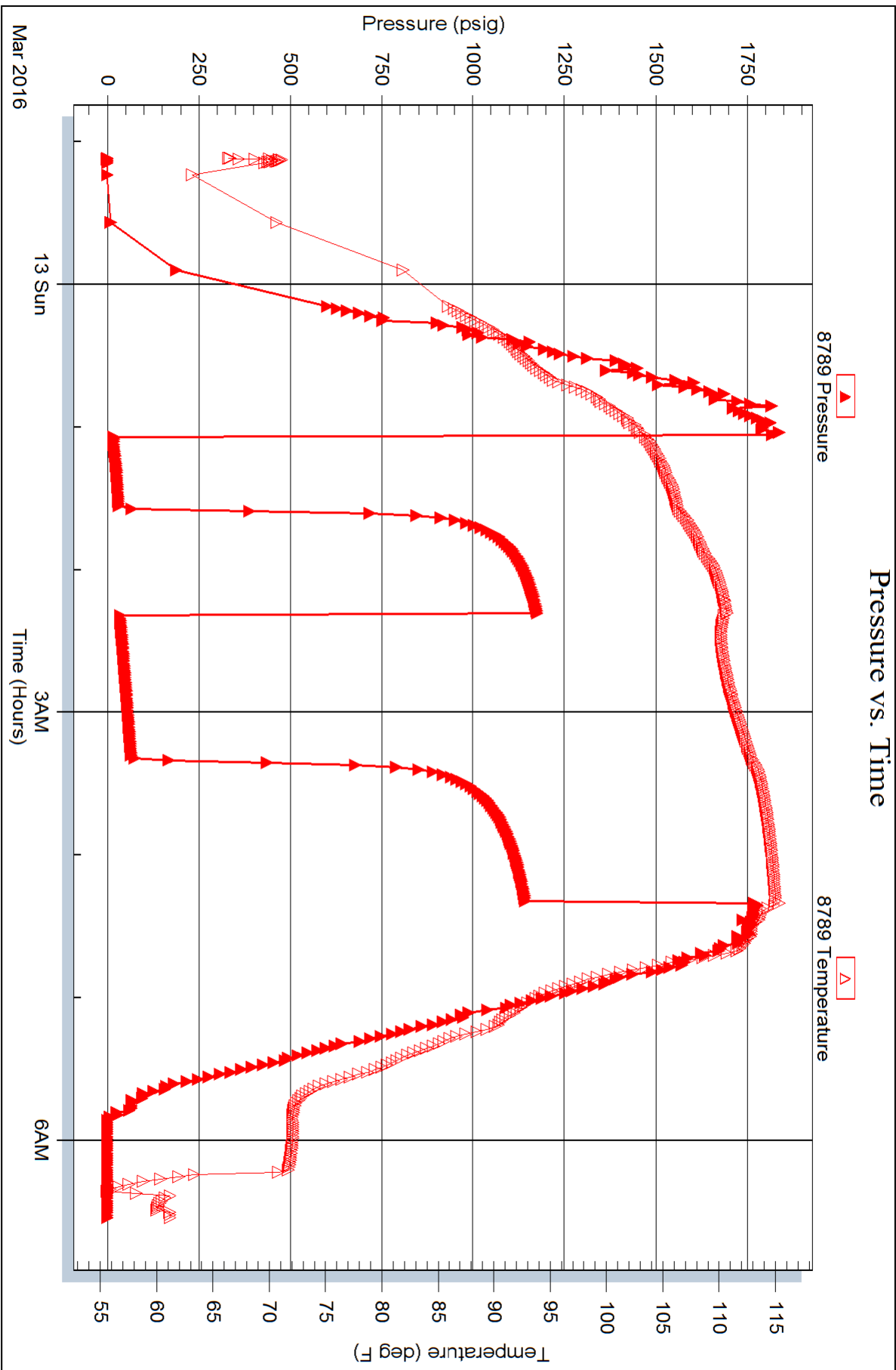
Serial #: 8789

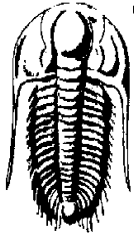
Inside

Daystar Petroleum Inc.

Deutscher " B " 1-2

DST Test Number: 1





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Daystar Petroleum Inc.

**2 15s 21w Trego**

522 N Main St.  
P.O. Box 560  
Eureka KS 67045-0560  
ATTN: Brad Rine

**Deutscher " B " 1-2**

Job Ticket: 64766

**DST#: 2**

Test Start: 2016.03.13 @ 14:55:00

## GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:14:00

Time Test Ended: 20:00:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

**Interval: 3872.00 ft (KB) To 3904.00 ft (KB) (TVD)**

Reference Elevations: 2131.00 ft (KB)

Total Depth: 3904.00 ft (KB) (TVD)

2122.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 8289 Outside**

Press @ Run Depth: 19.26 psig @ 3873.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.03.13

End Date:

2016.03.13

Last Calib.: 2016.03.13

Start Time: 14:55:02

End Time:

20:00:00

Time On Btm: 2016.03.13 @ 17:13:30

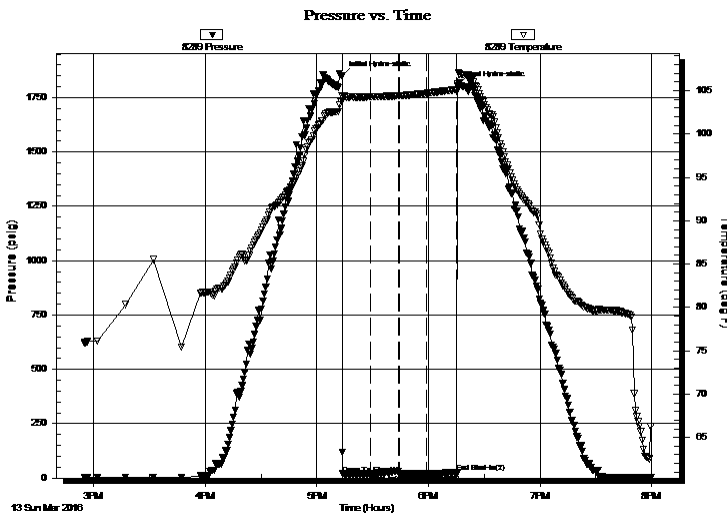
Time Off Btm: 2016.03.13 @ 18:15:30

**TEST COMMENT:** 15-IFP- Weak Surface Blow Died in 12min.

15-ISIP- No Blow

15-FFP- No Blow

15-FSIP- No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1851.89	104.35	Initial Hydro-static
1	19.08	104.26	Open To Flow (1)
16	18.71	104.30	Shut-In(1)
31	31.20	104.42	End Shut-In(1)
31	18.32	104.41	Open To Flow (2)
46	19.26	104.71	Shut-In(2)
62	26.10	105.14	End Shut-In(2)
62	1804.13	105.82	Final Hydro-static

## Recovery

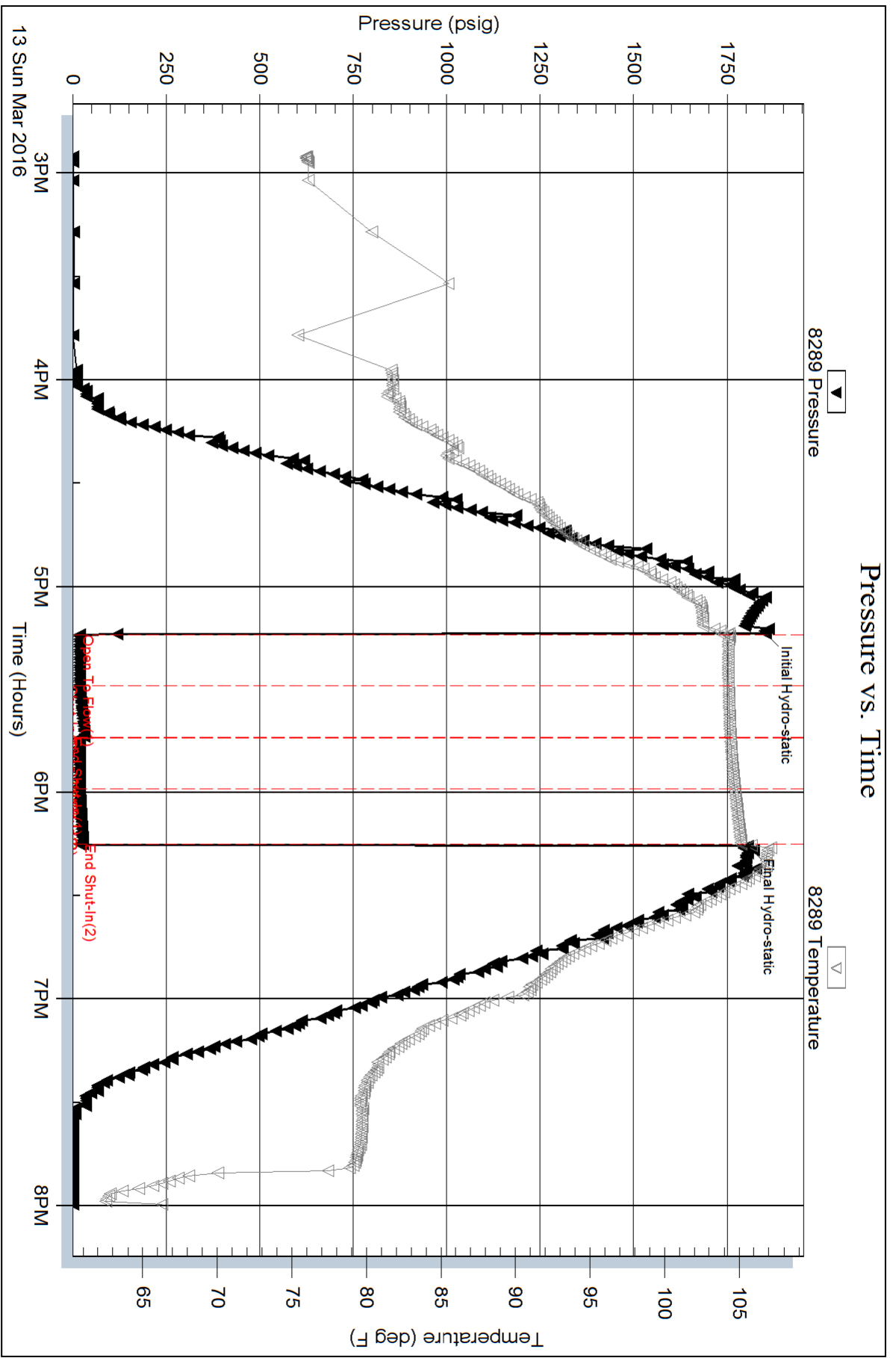
Length (ft)	Description	Volume (bbl)
2.00	Water Speck Mud 1%w 99%m	0.01

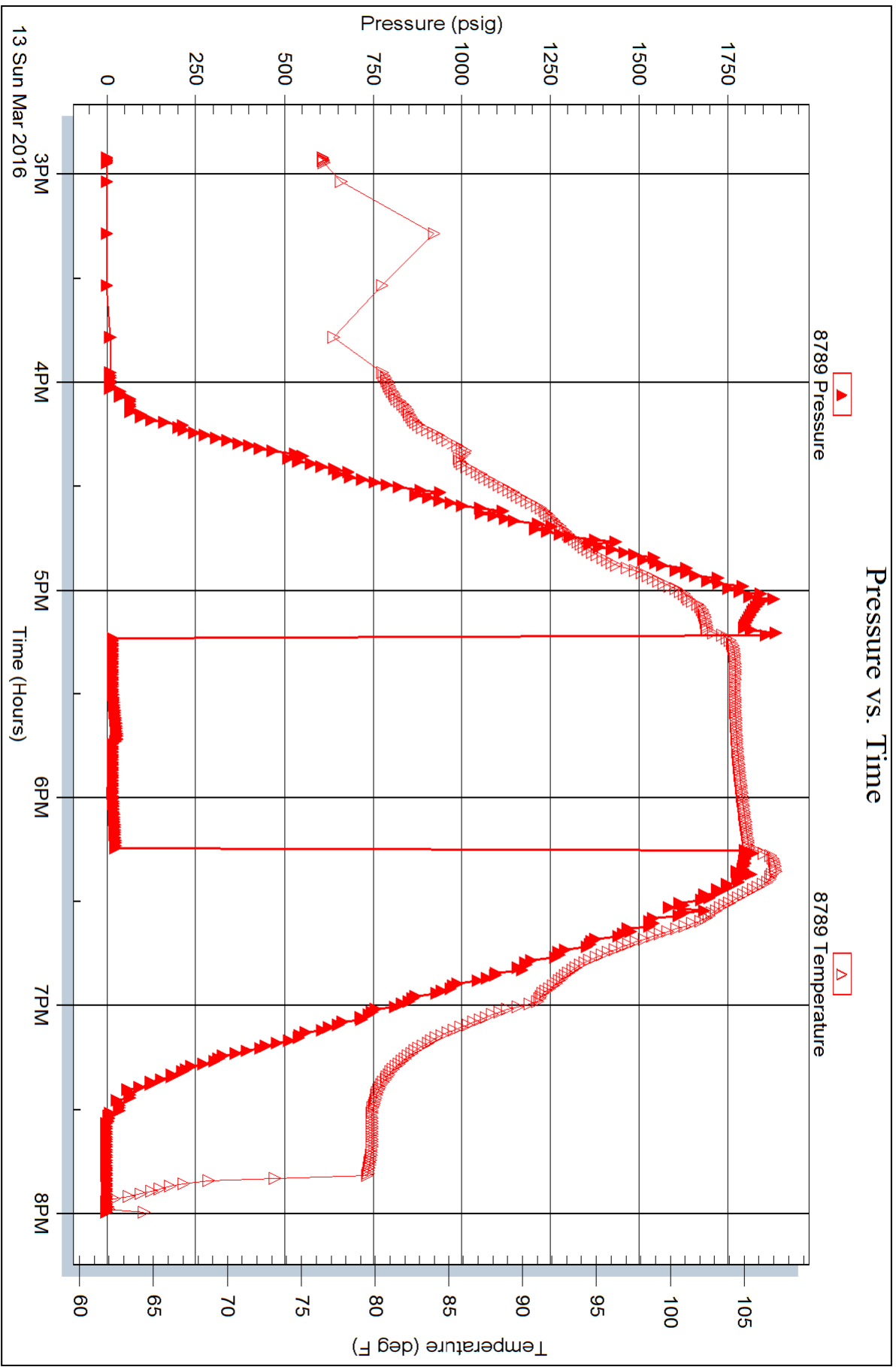
## Gas Rates

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

\* Recovery from multiple tests









**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Daystar Petroleum Inc.  
 522 N Main St.  
 P.O. Box 560  
 Eureka KS 67045-0560  
 ATTN: Brad Rine

**2 15s 21w Trego**

**Deutscher " B " 1-2**

Job Ticket: 64767

**DST#: 3**

Test Start: 2016.03.14 @ 19:20:00

## GENERAL INFORMATION:

Formation: **Cherokee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:09:00  
 Time Test Ended: 02:02:00

Test Type: Conventional Straddle (Reset)  
 Tester: Jim Svaty  
 Unit No: 76

Interval: **3872.00 ft (KB) To 3942.00 ft (KB) (TVD)**  
 Total Depth: 4040.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2131.00 ft (KB)  
 2122.00 ft (CF)  
 KB to GR/CF: 9.00 ft

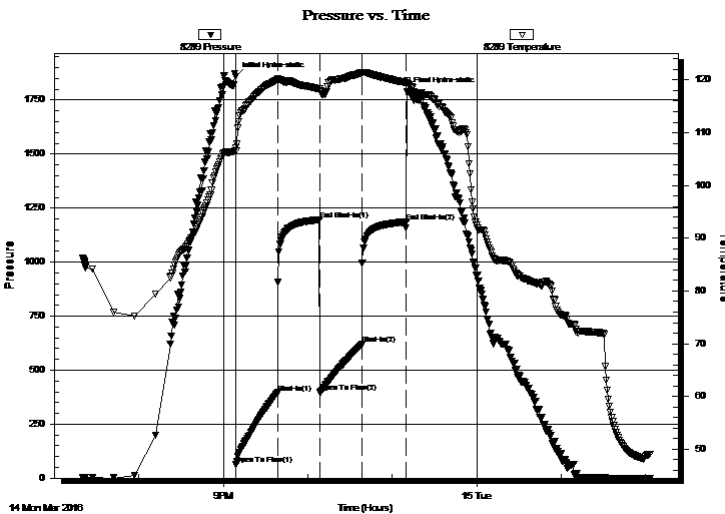
**Serial #: 8289 Outside**

Press@RunDepth: 618.69 psig @ 3878.00 ft (KB)  
 Start Date: 2016.03.14 End Date: 2016.03.15  
 Start Time: 19:20:02 End Time: 02:02:45

Capacity: 8000.00 psig  
 Last Calib.: 2016.03.15  
 Time On Btm: 2016.03.14 @ 21:08:45  
 Time Off Btm: 2016.03.14 @ 23:10:15

TEST COMMENT: 30-IFP- BOB in 3min.  
 30-ISIP- No Blow  
 30-FFP- BOB in 4min.  
 30-FSIP- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1859.44	107.20	Initial Hydro-static
1	63.90	106.64	Open To Flow (1)
30	395.32	119.98	Shut-In(1)
60	1196.53	118.30	End Shut-In(1)
60	396.39	118.01	Open To Flow (2)
90	618.69	121.31	Shut-In(2)
122	1185.72	119.53	End Shut-In(2)
122	1789.73	119.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
886.00	MCW 10% m 90% w	11.32
434.00	MCW 40% m 60% w	6.09

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Daystar Petroleum Inc.

**2 15s 21w Trego**

522 N Main St.  
P.O. Box 560  
Eureka KS 67045-0560  
ATTN: Brad Rine

**Deutscher " B " 1-2**

Job Ticket: 64767

**DST#: 3**

Test Start: 2016.03.14 @ 19:20:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 6.40 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 7000.00 ppm

Filter Cake: 6.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: 34000 ppm

deg API

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
886.00	MCW 10%m 90%w	11.317
434.00	MCW 40%m 60%w	6.088

Total Length: 1320.00 ft      Total Volume: 17.405 bbl

Num Fluid Samples: 0

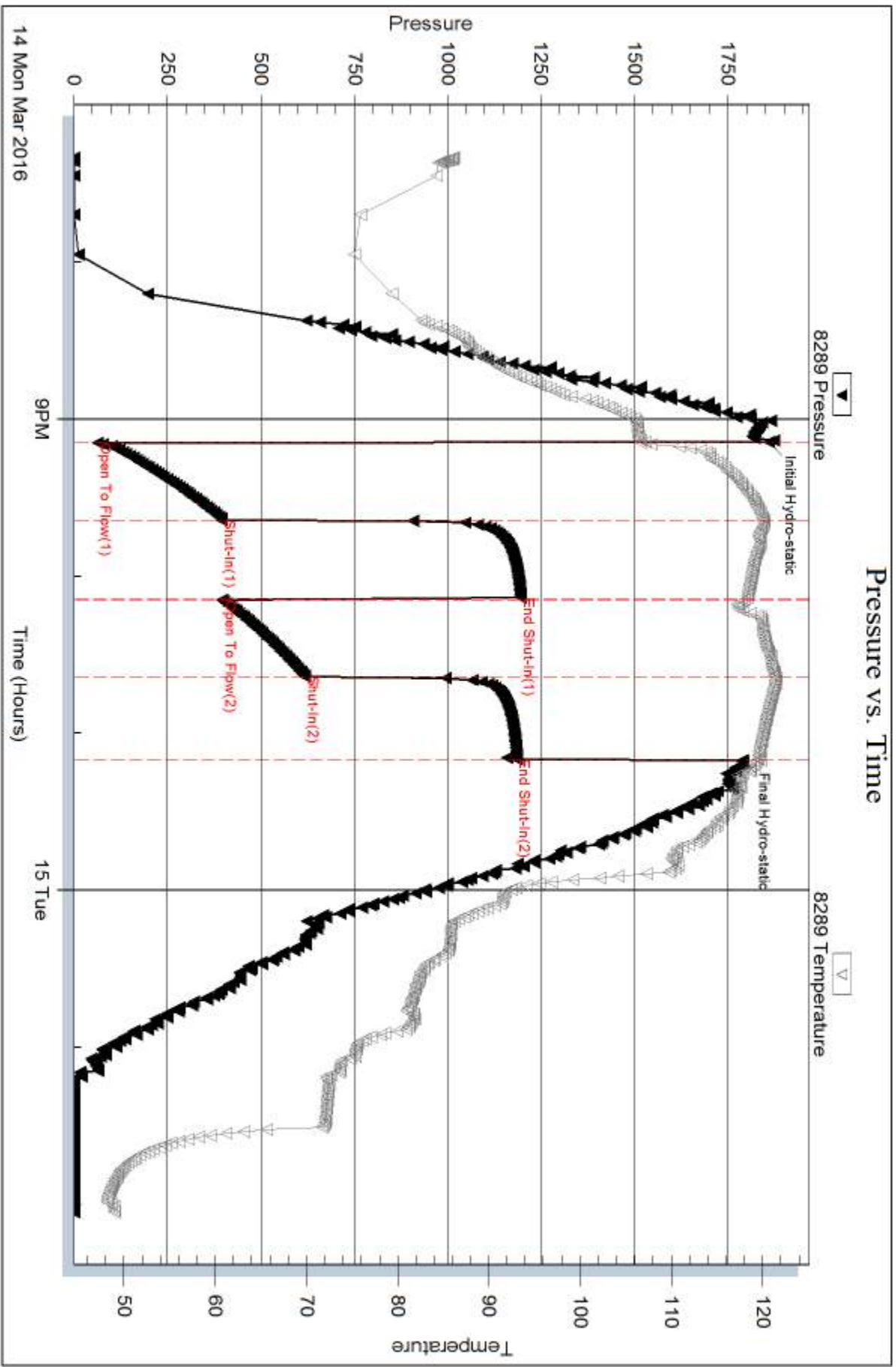
Num Gas Bombs: 0

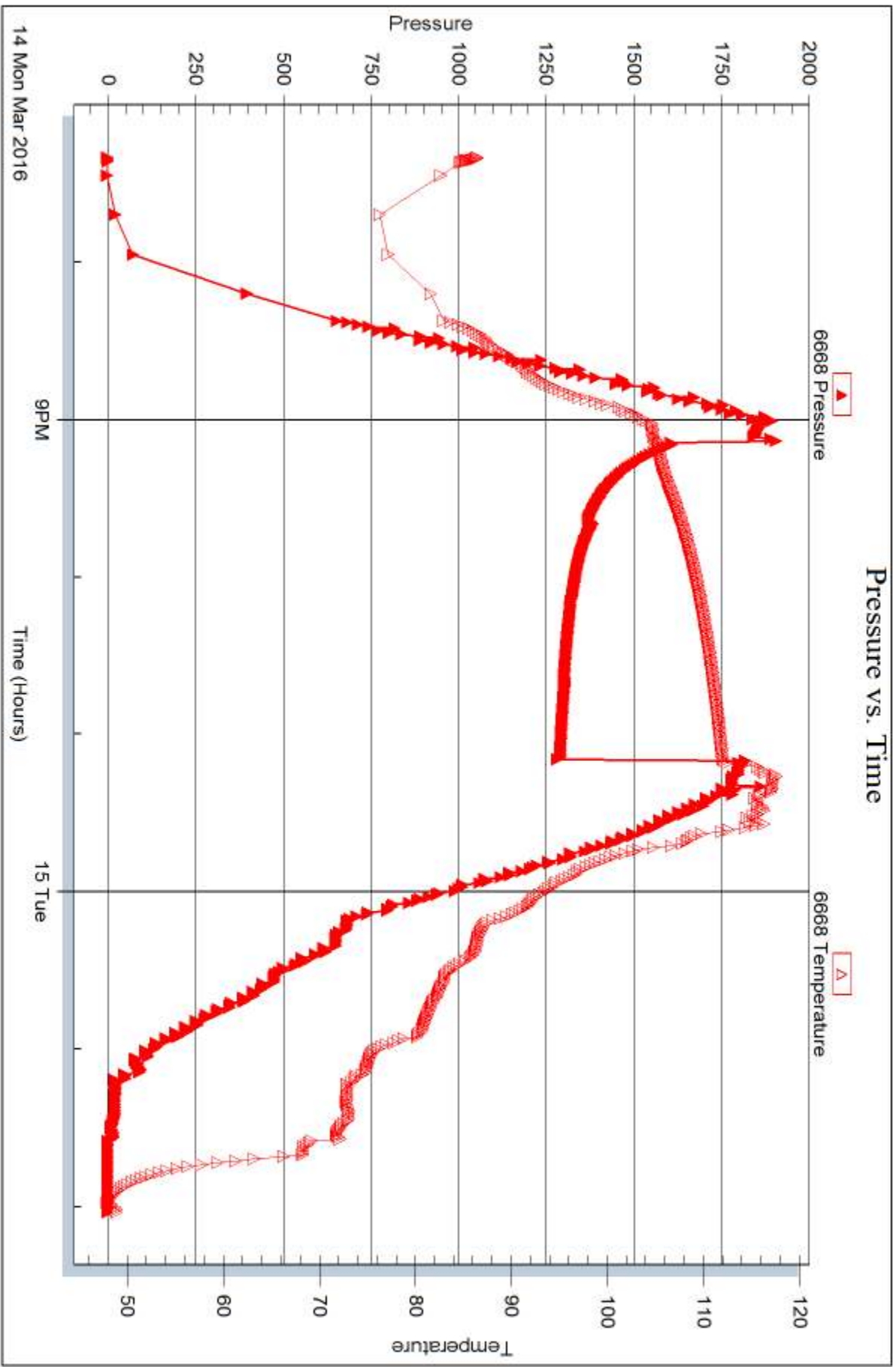
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .272 @ 53





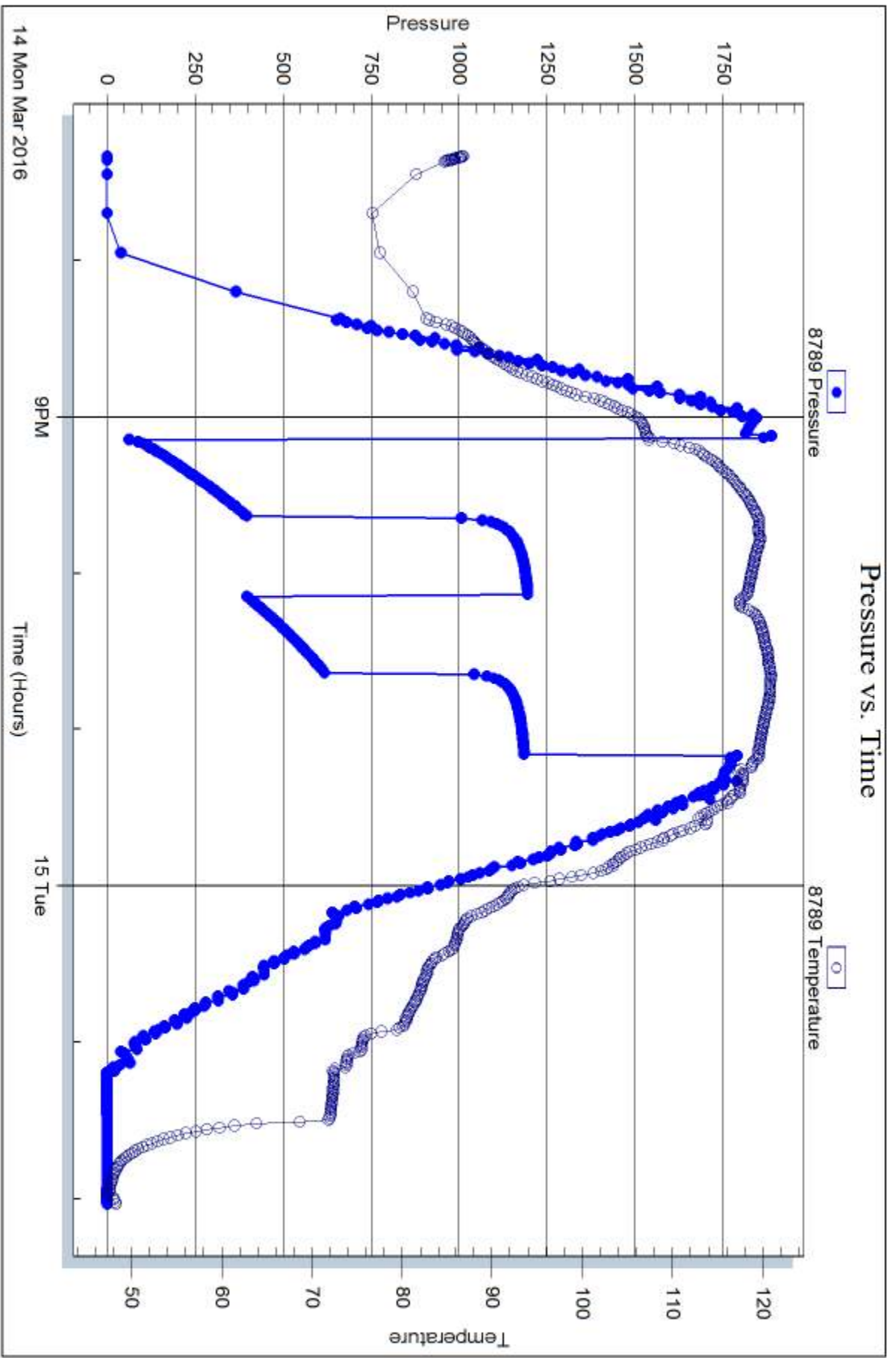
Serial #: 8789

Inside

Daystar Petroleum Inc.

Deutscher " B " 1-2

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 64767

Printed: 2016.03.15 @ 07:33:39

# ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. #20-5975804

067559

REMIT TO P.O. BOX 93999  
 SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley, TX

DATE <u>3/8/16</u>	SEC <u>2</u>	TWP <u>15</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Deutscher B</u>	WELL # <u>1-2</u>	LOCATION <u>Ogallah S TO 1ST Curve E TO</u>			COUNTY <u>Regg</u>	STATE <u>TX</u>	
OLD OR NEW <u>(Circle one)</u>	390 <u>S TO 2nd R. o Ninto</u>						

CONTRACTOR WW 12  
 TYPE OF JOB Surfac  
 HOLE SIZE 12 1/4 T.D.  
 CASING SIZE 8 5/8 DEPTH  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15'  
 PERFS.  
 DISPLACEMENT 15 3/4

OWNER Same  
 CEMENT AMOUNT ORDERED 2306m 370 CC  
74 Flt Seal

EQUIPMENT  
 PUMP TRUCK CEMENTER Ryan Ryan  
 # 818-281 HELPER Ryan Ryan  
 BULK TRUCK  
 # 891-287 DRIVER Cory Brown  
 BULK TRUCK  
 # DRIVER

COMMON 230 @ 17.00 4117.00  
 POZMIX @  
 GEL @  
 CHLORIDE 649 @ 1.10 713.90  
 ASC @  
 @  
 @  
 @  
 @  
 @  
 @

TOTAL 5,003.16

DISCOUNT 48% 2,401.51

REMARKS:

Amalg, Circulate, Mix Cement, Displace Cement, Shorten

Cement Bid Circulate  
Thank you  
Blanchard, Cory

SERVICE

HANDLING 247.00 @ 2.40 602.56  
 MILEAGE 225 @ 4.00/mile 921.25  
 DEPTH OF JOB  
 PUMP TRUCK CHARGE 1512.25  
 EXTRA FOOTAGE @  
 HV MILEAGE 30 @ 7.20 231.00  
 LV MILEAGE 30 @ 4.40 132.00

TOTAL 3,409.06

DISCOUNT 48% 1,636.35

CHARGE TO Day Star Petroleum  
 STREET  
 CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@  
 @  
 @  
 @  
 @  
 TOTAL  
 DISCOUNT %

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Carlton Brannan  
 SIGNATURE Carlton Brannan

SALES TAX (If Any)  
 TOTAL CHARGES 8,412.22  
 DISCOUNT 4,037.86 (48%) IF PAID IN 30 DAYS  
 NET TOTAL 4,374.35 IF PAID IN 30 DAYS

Bid

