

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
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	James P. Williams Enterprises, Inc.
Well Name	WANKER 1
Doc ID	1363867

All Electric Logs Run

Dual Induction Log
Compensated Density Neutron Log
Microresistivity Log
Cement Bond Log
Computer Generated Interpretation Log

Form	ACO1 - Well Completion
Operator	James P. Williams Enterprises, Inc.
Well Name	WANKER 1
Doc ID	1363867

Tops

Name	Top	Datum
Anhydrite	1750	+500
Base of Anyhydrite	1784	+467
Topeka	3281	-1033
Heebner Shale	3484	-1236
Toronto	3505	-1257
Lansing	3521	-1275
Base Kansas City	3740	-1493
Simpson Sand	3799	-1545
Arbuckle	3813	-1571
RTD	3900	-1650

Form	ACO1 - Well Completion
Operator	James P. Williams Enterprises, Inc.
Well Name	WANKER 1
Doc ID	1363867

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3796' - 3802'	N/A	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 1583

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-6-17	8	10	20	Rooks	KS		9:00PM

Location Pallo 35 Winto

Lease <u>Wanker</u>	Well No. <u>1</u>	Owner
Contractor <u>Discovery #2</u>		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 <u>Surface</u>		
Hole Size <u>12 1/4</u>	T.D. <u>222</u>	Charge To <u>James P. Williams Enterprises</u>
Csg. <u>8 5/8</u>	Depth <u>221</u>	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. <u>10'</u>	Shoe Joint	Cement Amount Ordered <u>150 80/20 3 1/2 LL 2 1/2 GEL</u>
Meas Line	Displace <u>13 1/2 BCL</u>	

EQUIPMENT

Pumptrk <u>5</u> No.	Cementing Helper <u>Brett</u>	Common <u>120</u>
Bulktrk	Driver	Poz. Mix <u>30</u>
Bulktrk <u>15</u> No.	Driver <u>Doug</u>	Gel. <u>3</u>
		Calcium <u>6</u>

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<u>8 5/8 on bottom. Est. Circulation.</u>	Sand
<u>M. & 150 SKD Displace</u>	Handling <u>159</u>
	Mileage

FLOAT EQUIPMENT

<u>Cement Did Circulate!</u>	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge Surface
Mileage 47

X Signature [Handwritten Signature]

Tax
Discount
Total Charge

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 1587

Date	7-12-17	Sec.	8	Twp.	10	Range	20	County	Rooks	State	KS	On Location		Finish	8:00am
								Location							
Lease								Well No. 1				Owner			
Contractor								To Quality Oilwell Cementing, Inc.							
Type Job								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				T.D.				Charge To							
Csg.				Depth				Street							
Tbg. Size				Depth				City State							
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.				Shoe Joint				Cement Amount Ordered							
Meas Line				Displace				5/6. Granite 500 gal mod clear							
EQUIPMENT								Common							
Pumptrk		No.		Cementer		Helper		Poz. Mix							
Bulktrk		No.		Driver		Driver		Gel.							
Bulktrk		No.		Driver		Driver		Calcium							
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
5 1/2 set @ 3900								Handling							
10 BL Spacers Cement 5 1/2 with 1500#								Mileage							
FLOAT EQUIPMENT															
Clear lines + Displace Plug								Guide Shoe							
Displace with 45 BL water								Centralizer 7							
36 BL mod + 10 BL water to land								Baskets 3							
Plug Plug low @ 1500#								AFU Inserts Du Tool							
Drop Down per Du Tool								Float Shoe 1							
Circulate 30 min								Latch Down 1							
								Pumptrk Charge							
								Mileage							
								Tax							
								Discount							
X Signature								Total Charge							

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 1588

Date	7-12-17	Sec.	8	Twp.	10	Range	20	County	Reks	State	KS	On Location		Finish	10:00AM
								Location							
								Palce 33 Winto							

Lease	Wanker	Well No.	1	Owner	To Quality Oilwell Cementing, Inc.
Contractor	Discovery #2	Top stage		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	DV 50K			Charge To	James P Williams Bitumase
Hole Size	7 7/8	T.D.	3900	Street	
Csg.	5 1/2	Depth	3905	City	State
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool	DV Tool	Depth	2196	Cement Amount Ordered 380 8/20 Qmde 1/4 #10	
Cement Left in Csg.		Shoe Joint			
Meas Line		Displace	510 BCC		

EQUIPMENT

Pumptrk	5	No.	Cementer		Common
			Helper		Poz. Mix
Bulktrk		No.	Driver		Gel.
Bulktrk	21	No.	Driver		Calcium

JOB SERVICES & REMARKS

Remarks:		Hulls
Rat Hole	30SK	Salt
Mouse Hole	15SK	Flowseal
Centralizers		Kol-Seal
Baskets		Mud CLR 48
D/V or Port Collar		CFL-117 or CD110 CAF 38
		Sand
		Handling
		Mileage

FLOAT EQUIPMENT

		Guide Shoe
		Centralizer
		Baskets
		AFU Inserts
		Float Shoe
		Latch Down

Pumptrk Charge

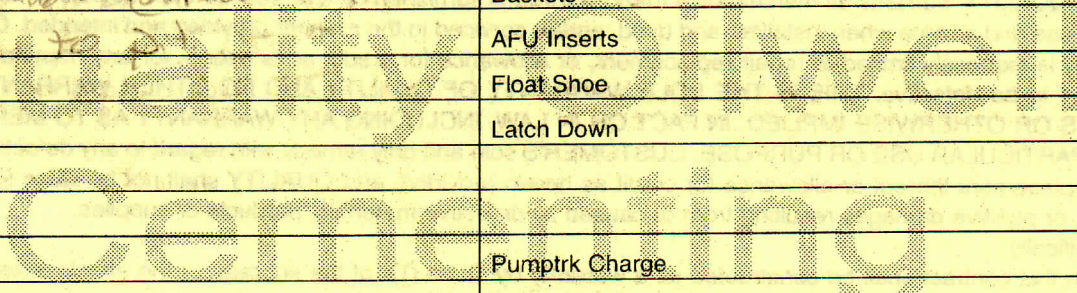
Mileage

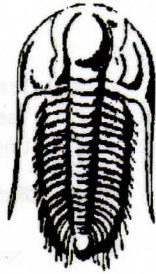
Tax

Discount

Total Charge

X Signature





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **James P. Williams Enterprise, Inc.**

PO Box 226
Palco KS 67657

ATTN: Randy Kilian

Wanker #1

8-10S-20W Rooks,KS

Start Date: 2017.07.11 @ 08:52:00

End Date: 2017.07.11 @ 15:05:15

Job Ticket #: 62987 DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2017.07.12 @ 09:52:33

James P. Williams Enterprise, Inc.

8-10S-20W Rooks,KS

Wanker #1

DST # 1

Simpson-Arbuckle

2017.07.11



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

James P. Williams Enterprise, Inc.

8-10S-20W Rooks,KS

PO Box 226
Palco KS 67657

Wanker #1

Job Ticket: 62987

DST#: 1

ATTN: Randy Kilian

Test Start: 2017.07.11 @ 08:52:00

GENERAL INFORMATION:

Formation: **Simpson-Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:24:45

Time Test Ended: 15:05:15

Test Type: Conventional Straddle (Initial)

Tester: Spencer J. Staab

Unit No: 84

Interval: **3780.00 ft (KB) To 3842.00 ft (KB) (TVD)**

Total Depth: 3900.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2250.00 ft (KB)

2243.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8934

Inside

Press@RunDepth: 665.49 psig @ 3781.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.07.11

End Date: 2017.07.11

Last Calib.: 2017.07.11

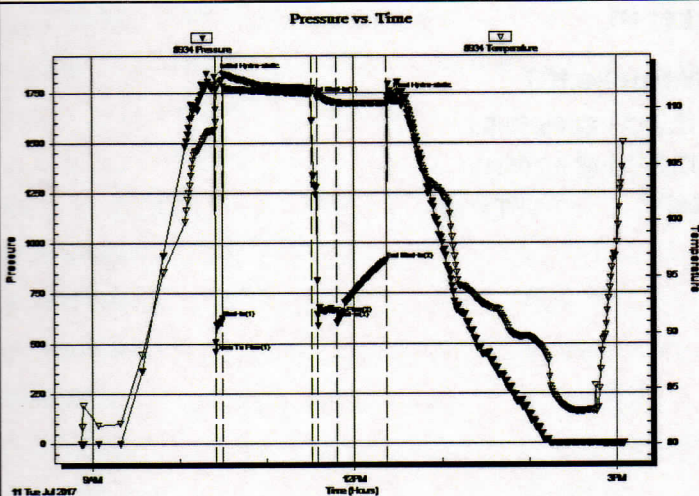
Start Time: 08:52:15

End Time: 15:05:15

Time On Btm: 2017.07.11 @ 10:24:15

Time Off Btm: 2017.07.11 @ 12:23:00

TEST COMMENT: 5-IF-Strong Blow ; BOB in 20 secs
60-ISI-No Return
15-FF-Strong Blow ; BOB in 5 secs
30-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1830.17	108.15	Initial Hydro-static
1	460.41	108.79	Open To Flow (1)
6	628.74	112.57	Shut-In(1)
67	1745.48	111.79	End Shut-In(1)
71	646.82	111.00	Open To Flow (2)
84	665.49	110.52	Shut-In(2)
118	916.77	110.45	End Shut-In(2)
119	1730.70	110.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
945.00	Muddy Water 50%M 50%W	11.18
440.00	WCM 10%W 90%M	6.17

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

James P. Williams Enterprise, Inc.

8-10S-20W Rooks, KS

PO Box 226
Palco KS 67657

Wanker #1

Job Ticket: 62987

DST#: 1

ATTN: Randy Kilian

Test Start: 2017.07.11 @ 08:52:00

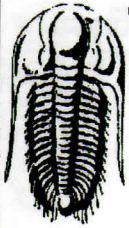
Tool Information

Drill Pipe:	Length: 3468.00 ft	Diameter: 3.80 inches	Volume: 48.65 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 50.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3780.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	3842.00 ft			
Interval between Packers:	62.00 ft			
Tool Length:	148.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3753.00	
Shut In Tool	5.00			3758.00	
Hydraulic tool	5.00			3763.00	
Jars	5.00			3768.00	
Safety Joint	3.00			3771.00	
Packer	5.00			3776.00	28.00 Bottom Of Top Packer
Packer	4.00			3780.00	
Stubb	1.00			3781.00	
Recorder	0.00	9120	Inside	3781.00	
Recorder	0.00	8934	Inside	3781.00	
Change Over Sub	1.00			3782.00	
Drill Pipe	32.00			3814.00	
Change Over Sub	1.00			3815.00	
Perforations	23.00			3838.00	
Blank Off Sub	1.00			3839.00	
top of s.packer	3.00			3842.00	62.00 Tool Interval
Packer	0.00			3842.00	
Stubb	1.00			3843.00	
Change Over Sub	1.00			3844.00	
Recorder	0.00	8353	Below	3844.00	
Drill Pipe	32.00			3876.00	
Change Over Sub	1.00			3877.00	
Perforations	19.00			3896.00	
Bullnose	4.00			3900.00	58.00 Bottom Packers & Anchor
Total Tool Length:	148.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

James P. Williams Enterprise, Inc.

8-10S-20W Rooks,KS

PO Box 226
Palco KS 67657

Wanker #1

Job Ticket: 62987

DST#: 1

ATTN: Randy Kilian

Test Start: 2017.07.11 @ 08:52:00

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:

9700 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
945.00	Muddy Water 50%M 50%W	11.185
440.00	WCM 10%W 90%M	6.172

Total Length: 1385.00 ft

Total Volume: 17.357 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 4#LCM

RW=.179@110degrees

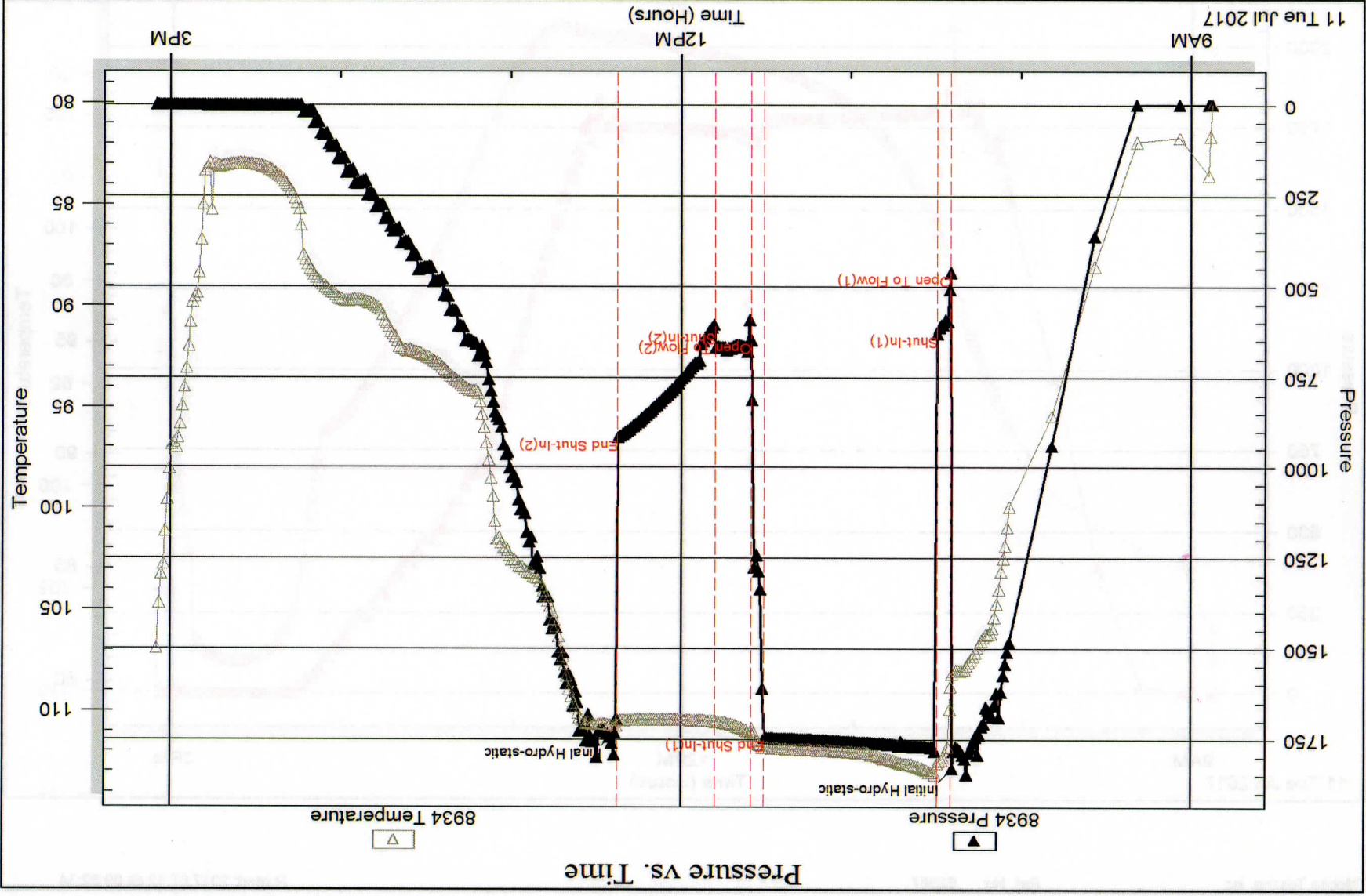
Serial #: 8934

Inside

James P. Williams Enterprise, Inc.

Wanker #1

DST Test Number: 1



Triolite Testing, Inc

Ref. No: 62987

Printed: 2017.07.12 @ 09:52:33

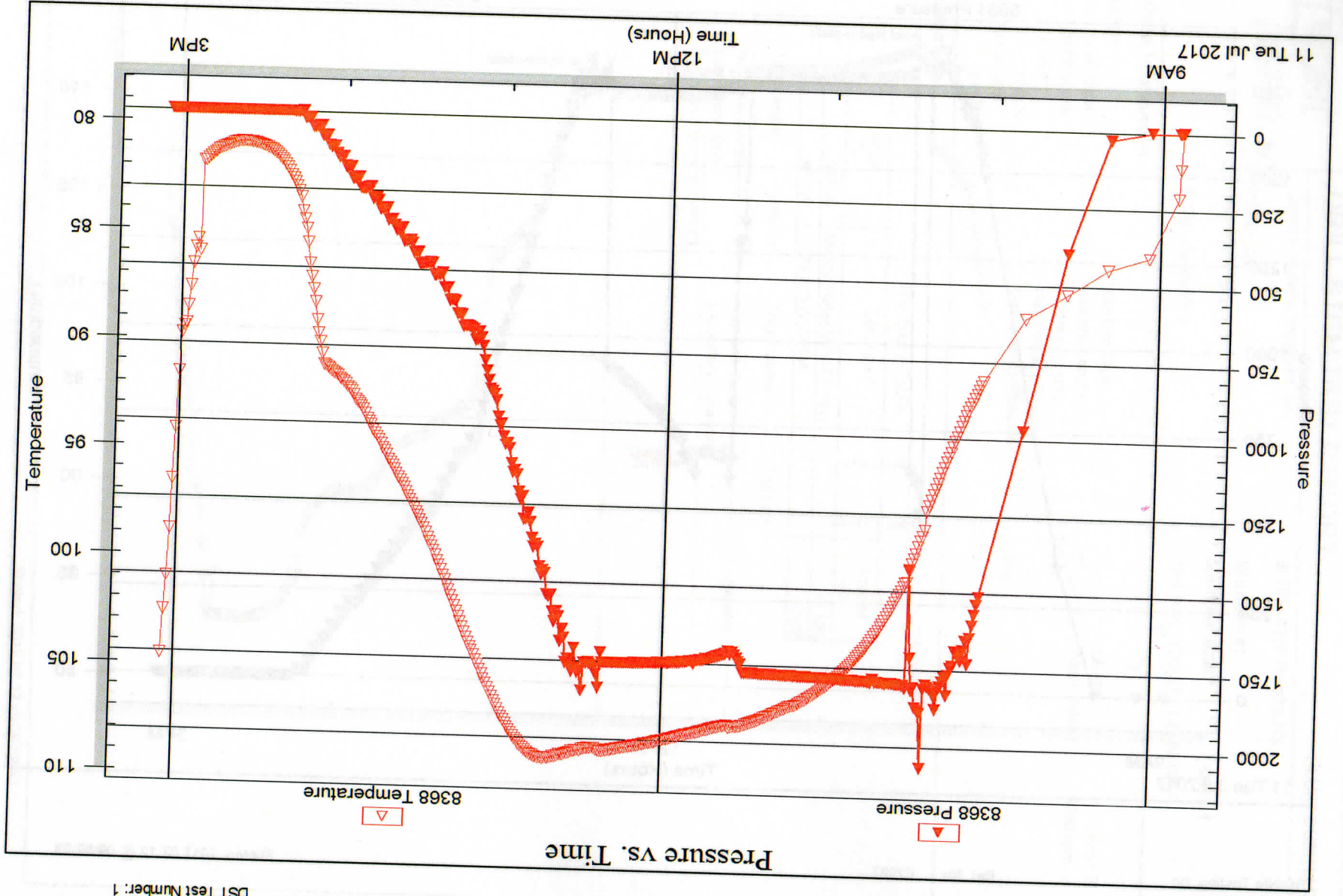
11 Tue Jul 2017

Serial #: 8368

James P. Williams Enterprise, Inc.

Wanker #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 62987

Printed: 2017.07.12 @ 09:52:34

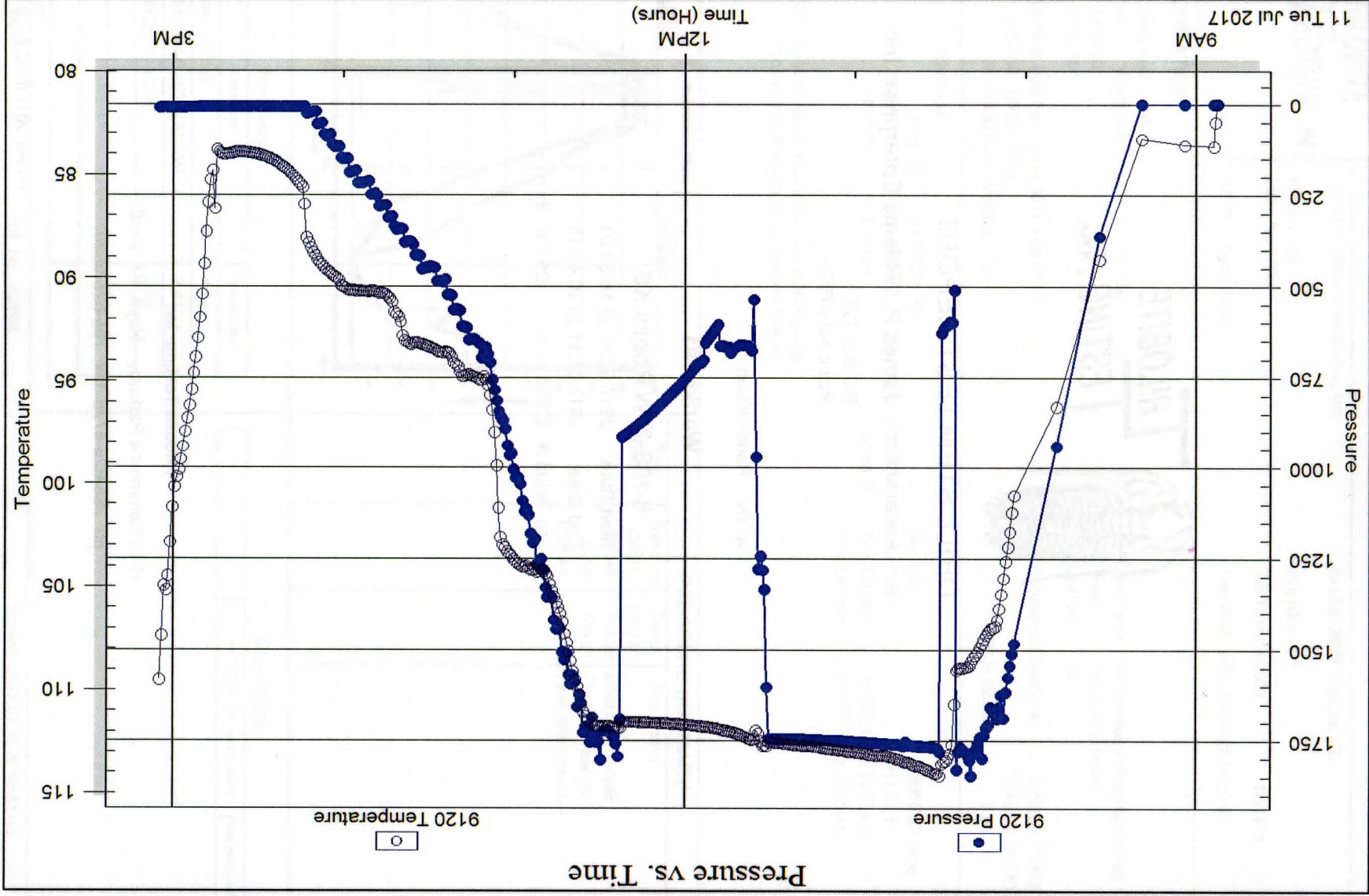
Serial #: 9120

Inside

James P. Williams Enterprise, Inc.

Wanker #1

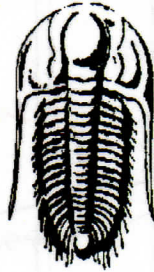
DST Test Number: 1



Triolite Testing, Inc

Ref. No: 62987

Printed: 2017.07.12 @ 09:52:34



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **James P. Williams Enterprise, Inc.**

PO Box 226
Palco KS 67657

ATTN: Randy Kilian

Wanker #1

8-10S-20W Rooks,KS

Start Date: 2017.07.11 @ 16:30:00

End Date: 2017.07.11 @ 20:48:15

Job Ticket #: 62988 DST #: 2

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2017.07.12 @ 09:51:45



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

James P. Williams Enterprise, Inc.

8-10S-20W Rooks, KS

PO Box 226
Palco KS 67657

Wanker #1

Job Ticket: 62988

DST#: 2

ATTN: Randy Kilian

Test Start: 2017.07.11 @ 16:30:00

GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:04:00

Time Test Ended: 20:48:15

Test Type: Conventional Straddle (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: **3781.00 ft (KB) To 3814.00 ft (KB) (TVD)**

Total Depth: 3900.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2250.00 ft (KB)

2243.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8934 Outside

Press@RunDepth: psig @ 3787.00 ft (KB)

Start Date: 2017.07.11 End Date: 2017.07.11

Start Time: 16:30:15 End Time: 20:48:15

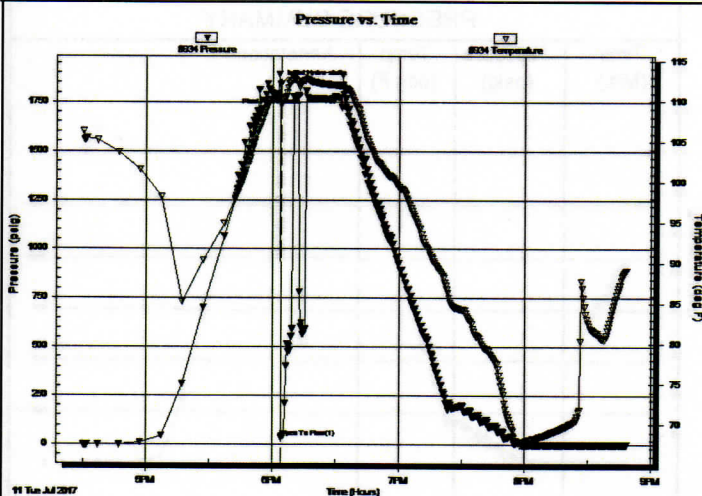
Capacity: 8000.00 psig

Last Calib.: 2017.07.11

Time On Btm: 2017.07.11 @ 18:03:45

Time Off Btm: 2017.07.11 @ 18:15:45

TEST COMMENT: IF- Weak Blow ; Built to 3"; then BOB instantly
Decided to pull due to Bottom Packer Failure



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1842.48	110.39	Initial Hydro-static
1	35.69	109.51	Open To Flow (1)
12	1805.69	113.34	Final Hydro-static

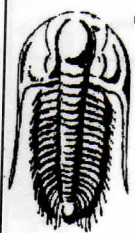
Recovery

Length (ft)	Description	Volume (bbl)
500.00	Water 100%W	4.94
200.00	OCMW 5%O 10%M 85%W	2.81
50.00	OCM 25%O 75%M	0.70

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

James P. Williams Enterprise, Inc.

8-10S-20W Rooks, KS

PO Box 226
Palco KS 67657

Wanker #1

Job Ticket: 62988

DST#: 2

ATTN: Randy Kilian

Test Start: 2017.07.11 @ 16:30:00

Tool Information

Drill Pipe:	Length: 3469.00 ft	Diameter: 3.80 inches	Volume: 48.66 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 61000.00 lb
		Total Volume:	50.94 bbl	Tool Chased 5.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3781.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	3814.00 ft			
Interval between Packers:	33.00 ft			
Tool Length:	148.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3754.00	
Shut In Tool	5.00			3759.00	
Hydraulic tool	5.00			3764.00	
Jars	5.00			3769.00	
Safety Joint	3.00			3772.00	
Packer	5.00			3777.00	28.00 Bottom Of Top Packer
Packer	4.00			3781.00	
Stubb	1.00			3782.00	
Perforations	5.00			3787.00	
Recorder	0.00	9120	Inside	3787.00	
Recorder	0.00	8934	Outside	3787.00	
Perforations	23.00			3810.00	
Blank Off Sub	1.00			3811.00	
top of s.packer	3.00			3814.00	33.00 Tool Interval
Packer	0.00			3814.00	
Stubb	1.00			3815.00	
Perforations	2.00			3817.00	
Change Over Sub	1.00			3818.00	
Recorder	0.00	8368	Below	3818.00	
Drill Pipe	63.00			3881.00	
Change Over Sub	1.00			3882.00	
Perforations	15.00			3897.00	
Bullnose	4.00			3901.00	87.00 Bottom Packers & Anchor
Total Tool Length:	148.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

James P. Williams Enterprise, Inc.

8-10S-20W Rooks,KS

PO Box 226
Palco KS 67657

Wanker #1

Job Ticket: 62988

DST#: 2

ATTN: Randy Kilian

Test Start: 2017.07.11 @ 16:30:00

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:	12000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9700.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

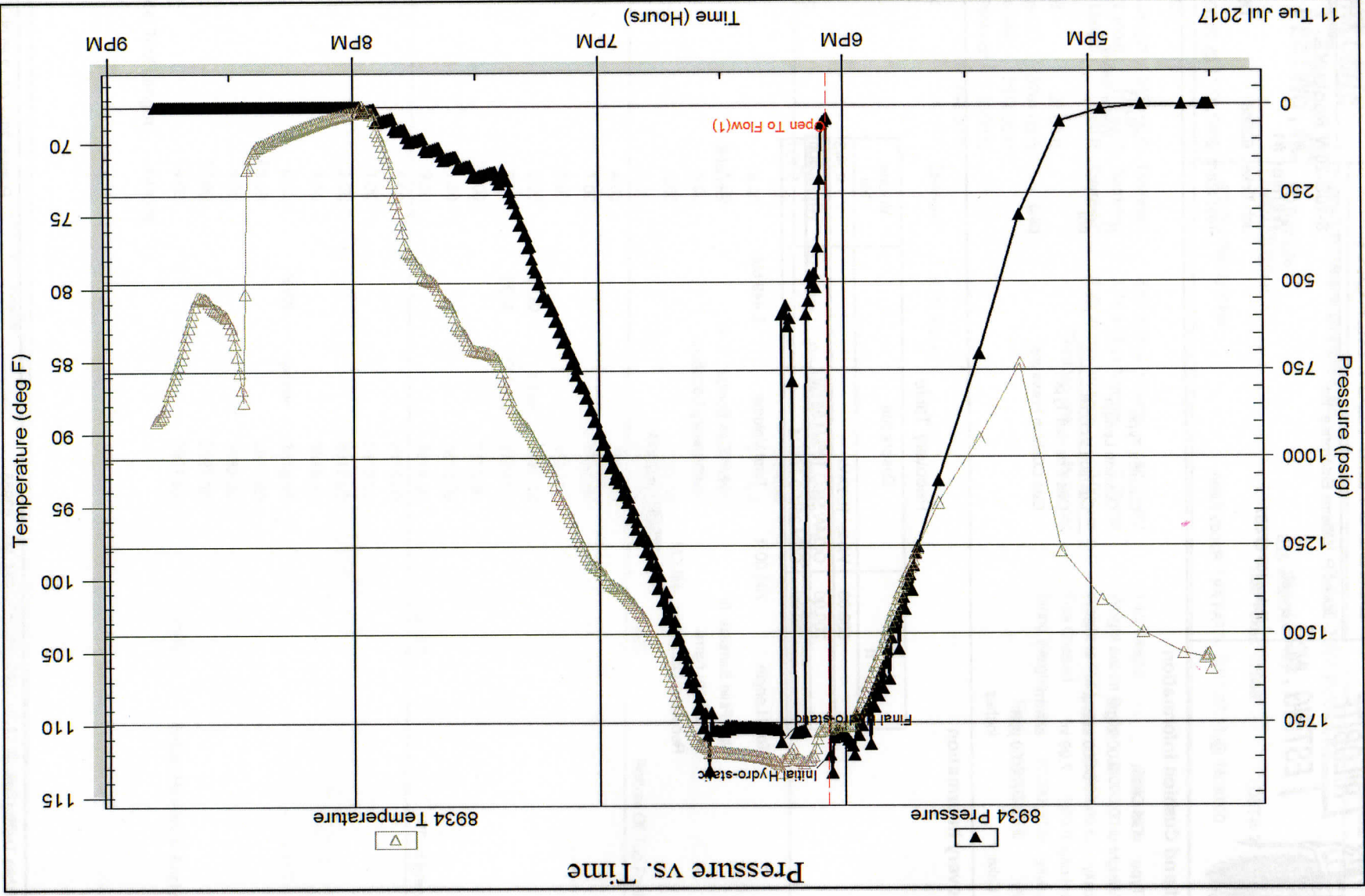
Length ft	Description	Volume bbl
500.00	Water 100%W	4.943
200.00	OCMV 5%O 10%M 85%W	2.805
50.00	OCM 25%O 75%M	0.701

Total Length: 750.00 ft Total Volume: 8.449 bbl

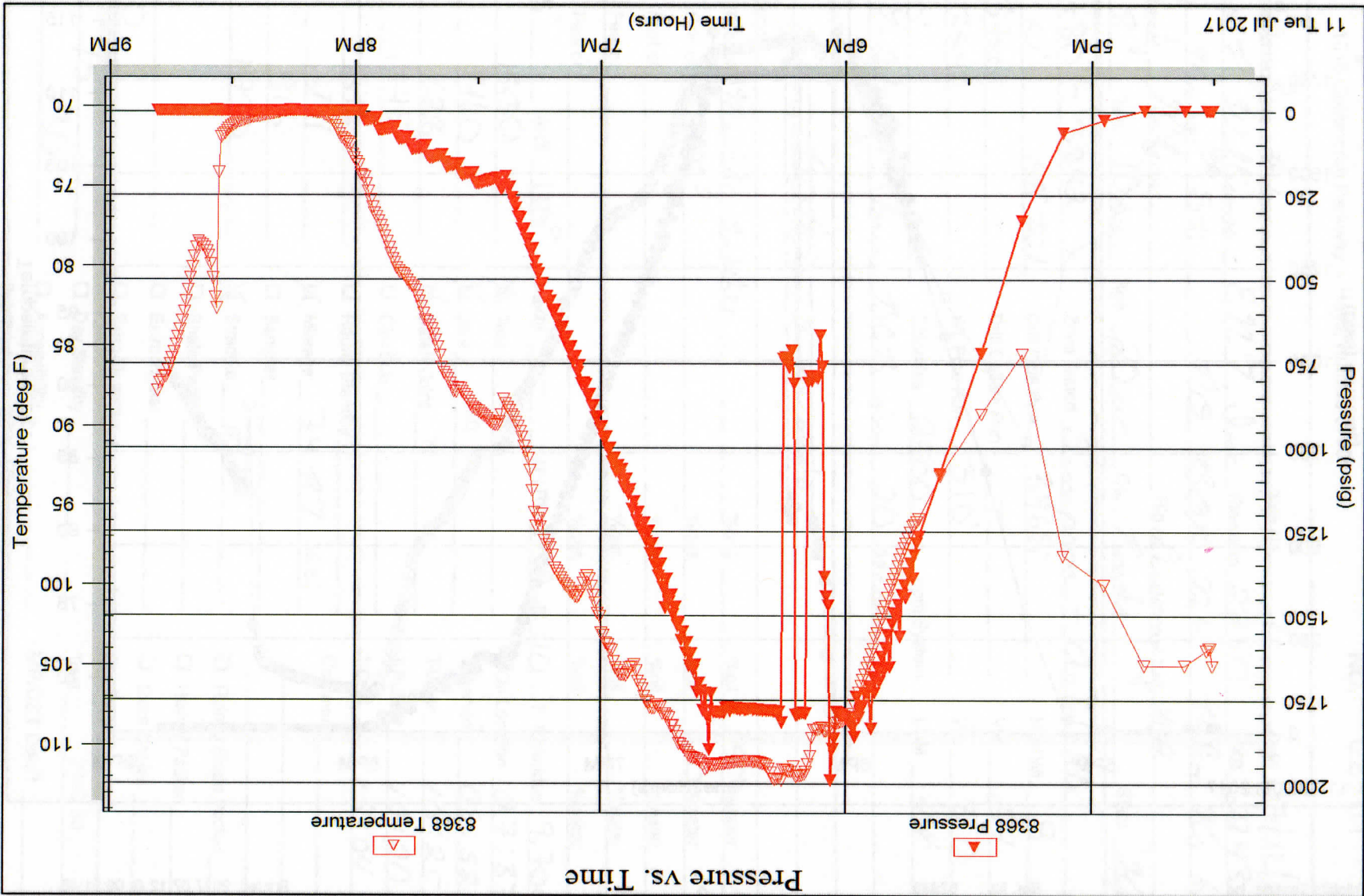
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 4#LCM
RW=.189@87degrees



Serial #: 8934 Outside James P. Williams Enterprise, Inc. Wanker #1 DST Test Number: 2

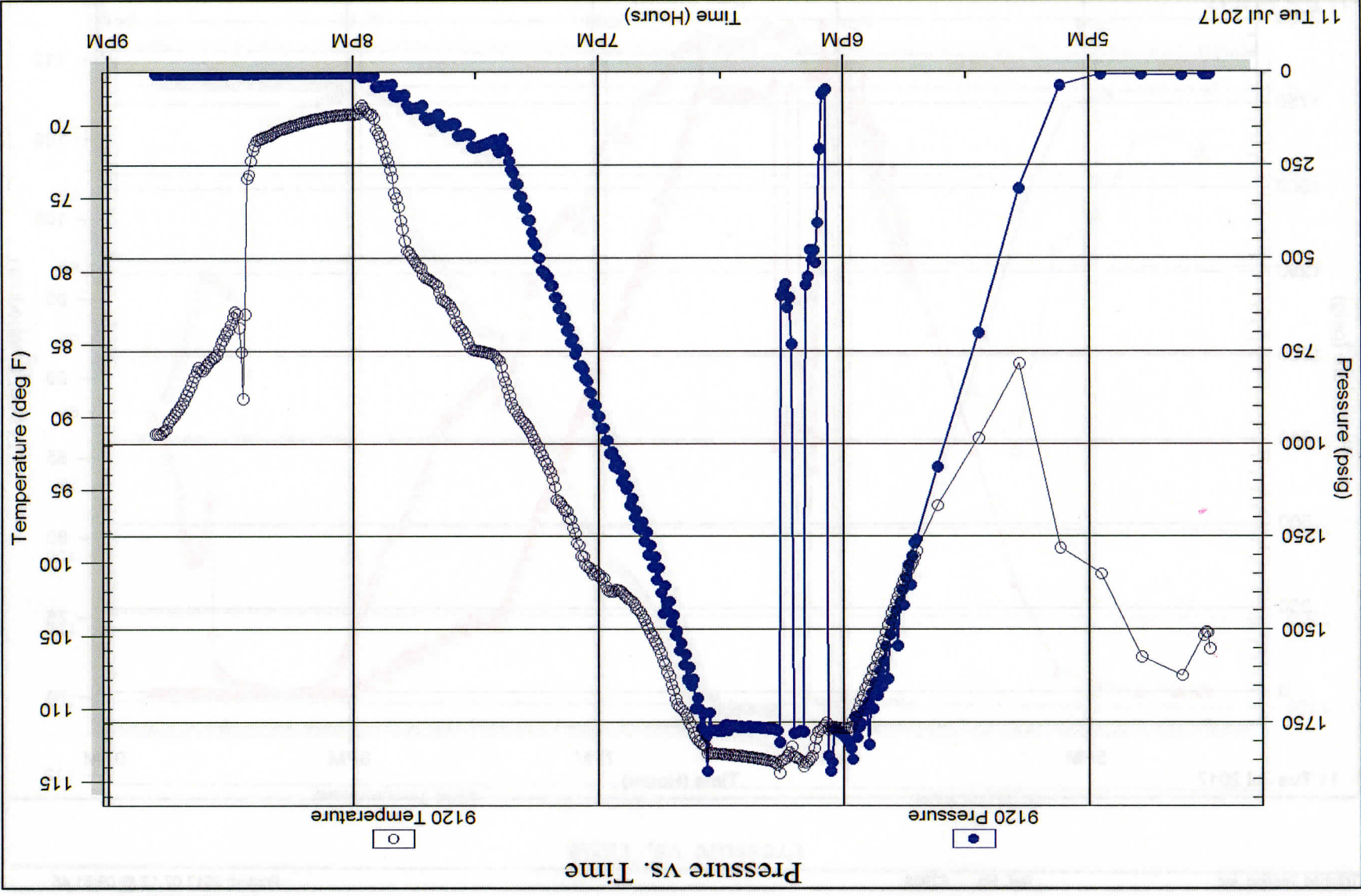


DST Test Number: 2

Wanker #1

Below (Straddle) P. Williams Enterprise, Inc.

Serial #: 8368



Serial #: 9120 Inside James P. Williams Enterprise, Inc. Wanker #1 DST Test Number: 2



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62987

Well Name & No. Wamber #1 Test No. 1 Date 07/11/2017
 Company James P. Williams ENT, Inc. Elevation 2250 KB 2243 GL
 Address 802 Main St PO BOX 226 Palo Ks 67654
 Co. Rep / Geo. Randy Hilian Rig Discovery #2
 Location: Sec. 8 Twp. 10s Rge. 20w Co. Rooks State Ks

Interval Tested 3780' - 3842' Zone Tested Simpson - Arbuckle
 Anchor Length 62' 58' tail Drill Pipe Run 3468' Mud Wt. 9
 Top Packer Depth 3780' Drill Collars Run - Vis 54
 Bottom Packer Depth 3842' Wt. Pipe Run 310' WL 8.0
 Total Depth 3900' Chlorides 2500 ppm System LCM 4#

Blow Description 77- Strong Blow; BOB in 20 seconds
75J - No Return
77- Strong Blow; BOB in 5 seconds
75J - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>945'</u>	<u>Muddy Water</u>			<u>50%</u>	<u>50%</u>
<u>440'</u>	<u>WCM</u>			<u>10%</u>	<u>90%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1385' BHT 110° Gravity - API RW .179 @ 110° F Chlorides 9,700 ppm
 (A) Initial Hydrostatic 1830' Test 1050 T-On Location 07:37
 (B) First Initial Flow 460 Jars 250 T-Started 08:52
 (C) First Final Flow 628 Safety Joint 75 T-Open 10:25
 (D) Initial Shut-In 1745 Circ Sub - T-Pulled 12:20
 (E) Second Initial Flow 646 Hourly Standby - T-Out 15:04
 (F) Second Final Flow 601 Mileage 74 RT 55.50 Comments _____
 (G) Final Shut-In 916 Sampler _____
 (H) Final Hydrostatic 1730 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 5
 Initial Shut-In 60
 Final Flow 15
 Final Shut-In 30
 Day Standby _____
 Accessibility _____
 Sub Total 2030.50 MP/DST Disc't _____

Approved By _____ Our Representative James J. Jacob Thanks!
 Trilobite Testing Inc. shall not be liable for damaged or destroyed 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.
 JRC-JCA-MSL

Randall Kilian Corporation

Geologist



Certified Petroleum
Geologist #3351
License #224

P.O. Box 26
Hays, Kansas 67601-0026
Phone: 785-628-6061
Cell: 785-635-1349

GEOLOGIST'S WELL REPORT

COMPANY JAMES P WILLIAMS ENTERPRISES, INC. (35220)

WELL Wanker #1

FIELD Marcotte

LOCATION (legal) N $\frac{1}{2}$ SE SE NE
2200' FNL & 330' FEL
Section 8 TWP 10S RGE 20W

(Map) 3.4 mi S of Palco, Ks

COUNTY Rooks STATE Kansas

ELEVATION: 2242' K.B., 2250' G.L.

Depths measured from Kelly Bushing

A. P. I. NUMBER 15-163-24343

GEOLOGY BY Randall Kilian

PERTINENT WELL DATA

CONTRACTOR Discovery Drilling (31548)

RIG #2 HYDRAULICS Emsco D-375 6x14x60
(Terry Wickham TP)

DRILL PIPE 4½" X-H COLLARS 6¼" x 2¼" (409')

CASING: SURFACE 8 5/8" @ 221' w/ 150 sx 80/20

PRODUCTION 5 ½" @ 3899' w/ 150 sx Common

DV @ 2196' w/ ~~3353x~~ QMD

DRILLING FLUID: COMPANY Andy's Mud & Chemical Co.
(Brandon Mendez)

TYPE: Chemical

REMARKS: Full service

DRILL STEM TESTS: COMPANY Trilobite Testing Inc.
(Spencer Staab)

NUMBER OF TESTS Two (2)

ELECTIC LOGS: COMPANY Gemeni Wireline Service

DETAIL (5") 3200' - RTD

TYPE Comp N-D, DI, Micro

DRILLING TIME FROM 3250' TO RTD

SAMPLE TIME FROM 3250' TO RTD

SUPERVISION FROM 3250' TO RTD

VERTICAL DEVIATION ¼° @ 222', 1° @ 3900'

PLUGGING REPORT 30 sx Rat, 15 sx Mouse

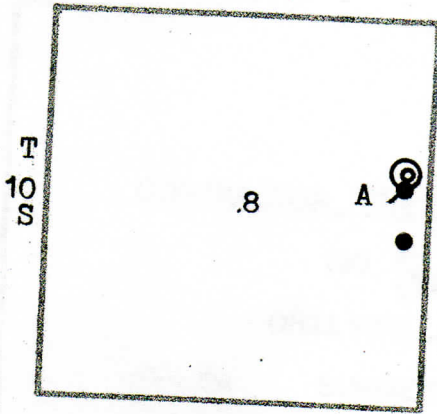
RESERVE PIT 600 bbls., Chl. 30,000 Ca 740

FORMATION TOPS & STRUCTURAL GEOLOGY

R 20 W

REFERRED TO:

- A: D.G. HANSEN
- #1 Oesterreich SE SE NE 8
- B: _____
- C: _____
- D: _____
- E: _____



STRATIGRAPHIC MARKERS	SUBJECT WELL		DATUM	STRUCTURAL POSITION				
	SAMPLE	E. LOG		A	B	C	D	E
Anhydrite	1750'	1750'	+ 500	+ 501				
Base	1784'	1783'	+ 467	+ 468				
Topeka	3281'	3283'	-1033	-1029				
Heeb Sh	3484'	3486'	-1236	-1232				
Toronto	3505'	3507'	-1257	-1254				
Lansing	3521'	3525'	-1275	-1271				
BKc.	3740'	3743'	-1493	-1489				
Smp. Sand	3799'	3795'	-1545	-1544				
Arbuckle	3813'	3821	-1571	-1561				
TD	3900'	3900'	-1650	-1579				

*Structural position of subject well as compared to referred well.

SUMMARY

The Wanker #1 well was drilled with Discovery Drilling tools rig #2 beginning July 6, 2017 and drilling was completed July 11, 2017.

The drilling location is located 110' north of the abandoned #1 Oesterreich well. This well produced 156,500 BO from 1954-2000.

The Wanker #1 well ran 4-10' lower structurally to the abandoned well. Oil shows were encountered in several zones. An 8' thick Simpson Sand developed with good oil shows which was not developed in the offset well. This zone was DST #2 but a packer failure caused an unsuccessful test. However, the oil recovery in the recovered fluid indicates permeability in the zones.

Based upon all data, casing was set and cemented to further test the well.

Recommended perms; Smp Sd. 3796-3802', LKc K 3717-18', Topeka 30' zone 3309'.

At some point LKc C 3566'.

Respectfully,

Randy
Randall K. Kilian

T
10
S

225514

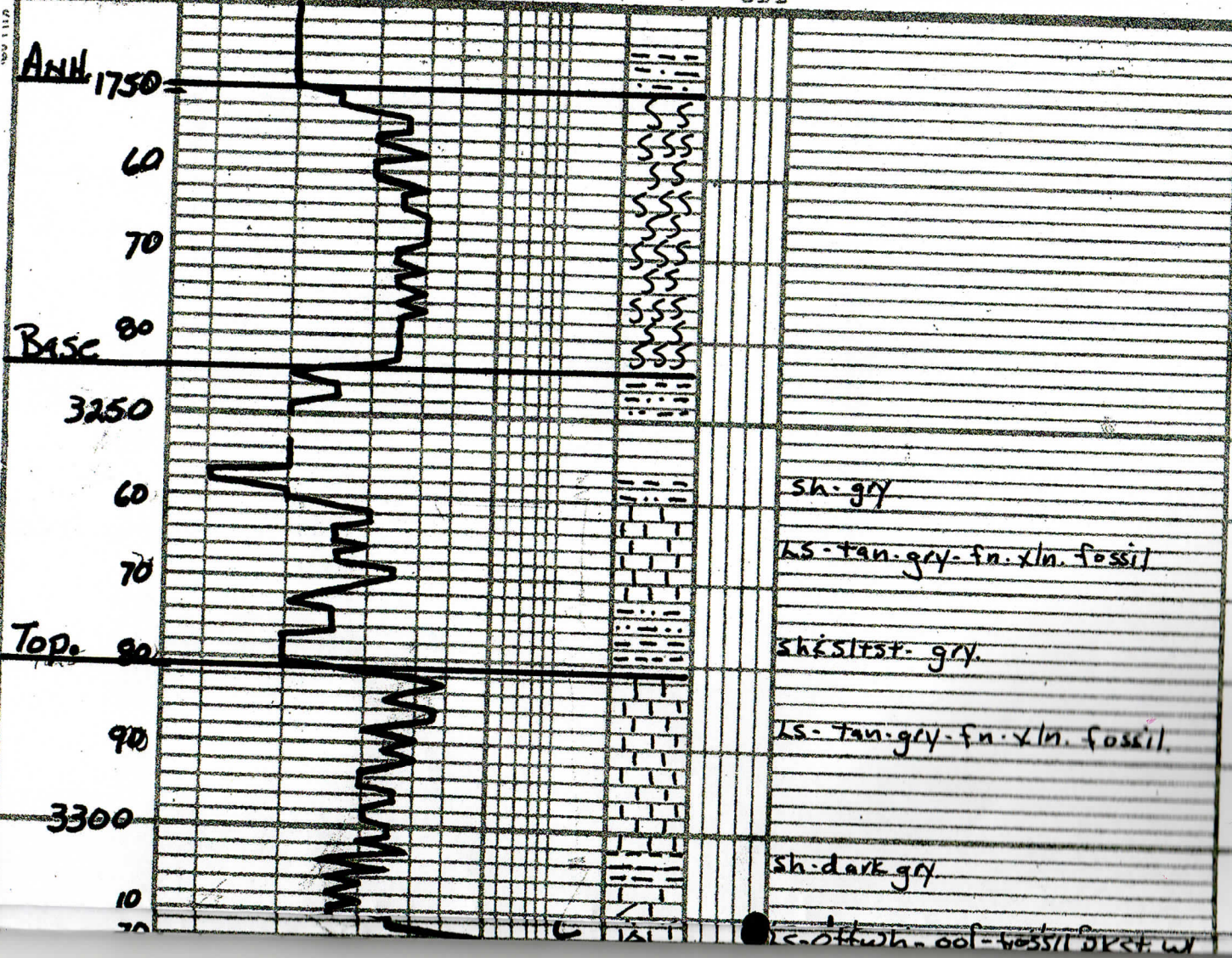
DRILLING TIME (min/ft)

1/2 1 2 3 4 5 6 7 8 9 10

POOR
FAIR
GOOD
EXCEL
SHOWS
DST

LITHOLOGY (LAGGED)

REMARKS



Displaced @ 3211'

3200' Mud test.
 Vis. 60 y.p. - 19
 wt. - 8.6 chl. - 1.5K
 wk. - 8.0 lcm. - 2.5"

sh. gry

ls. tan. gry. fn. xln. fossil

sh. siltst. gry.

ls. tan. gry. fn. xln. fossil.

sh. dark gry

ls. offwh. ool. fossil. dk. w



LS - 910 - Tan. fn. xln. fossil
xln. 0. air st. - set. S/SFB,
S/ador

sh - grey

sh's/stst - grey-brn.

LS - grey-fn. xln. fossil.

LS - Tan. grey-fn. xln. fossil.

sh - dark grey - blk.

sh's/stst - grey-brn.

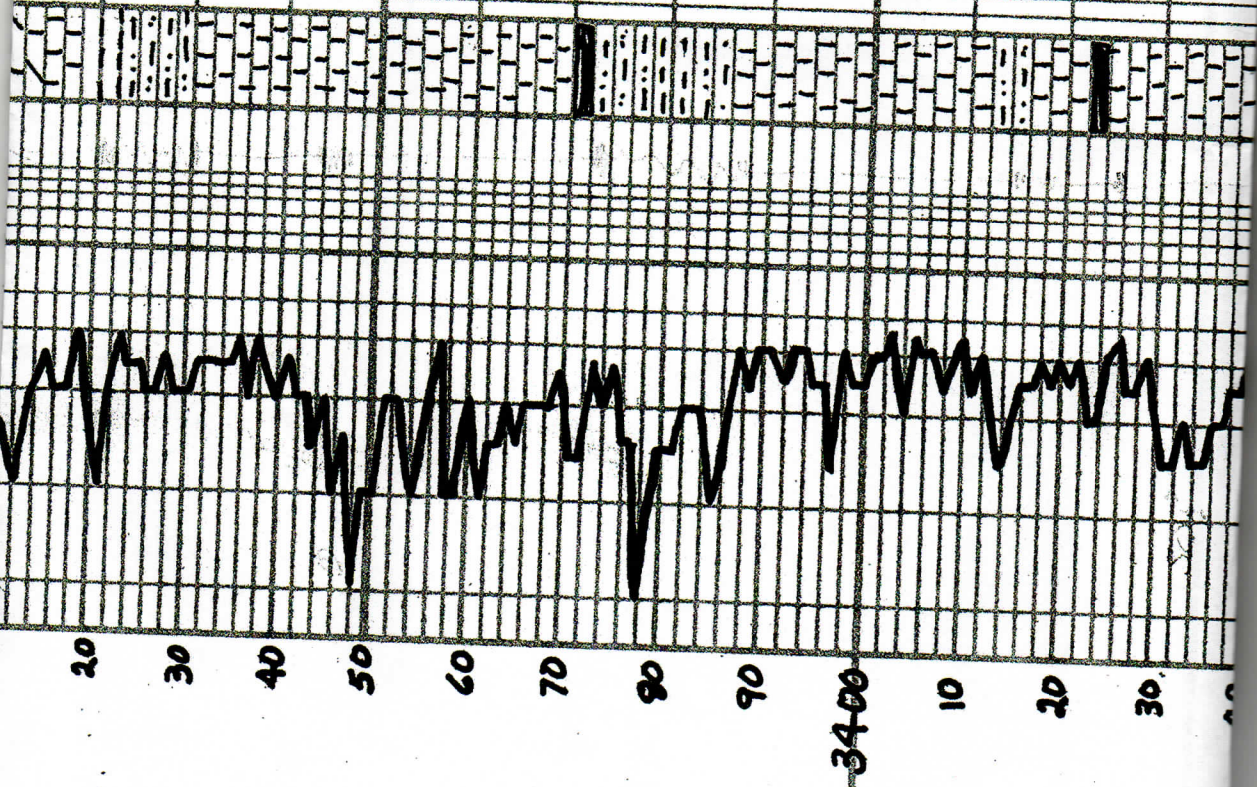
LS - 1st grey - grey-fn. xln. fossil
S/SFB

LS - a/e.

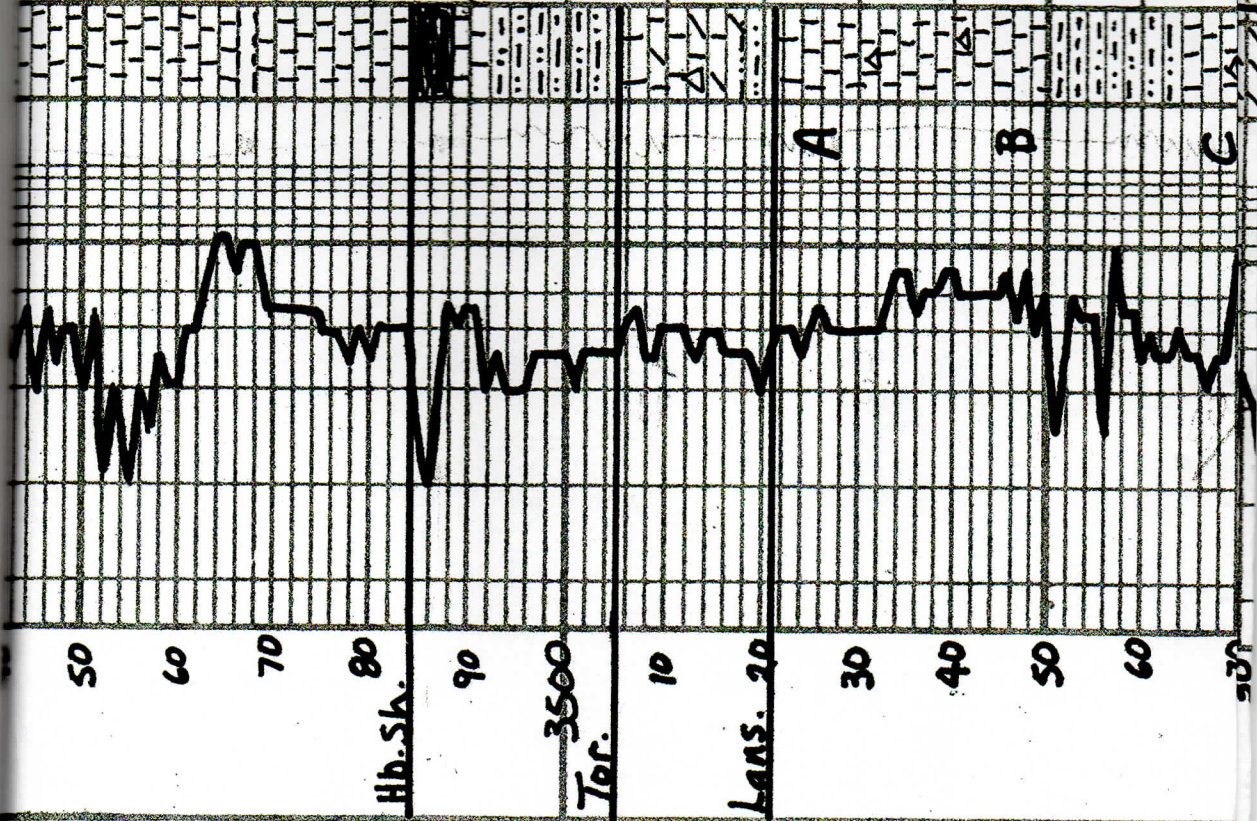
sh's/stst - grey - grey

sh - blk.

off wh. - fn. xln. fossil



3400



LS a la.

sh-gry

LS-wh-tan-fn-xln. fossil

Sh-bik, Carb. fissile

LS-tan-fn-xln.

sh sltst-gry-brn-grn.

LS-sltdlo offwh wh-tan-
ltgry, fn-xln. sl. Δ,
sl chalky

sh sltst-gry-brn-grn.

LS-offwh-wh-fn-xln. ool
w/ poor intergr. sl. ool
sl in φ sl. Δ

LS-offwh-1-fgry-fn-xln. sl. Δ

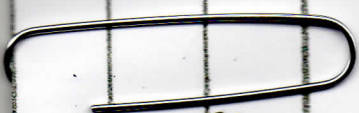
sh sltst-gry-brn-grn.

LS-offwh-ool-fossil ool w/

Mud
US-53
wt. 8.8

Mud
US-83
wt. 8.8

1957



Mud.
US-50
wt.-89

Mud.
US-50 Y.P.-14
wt.-90 CHI.-1.5K
wk.-84 LCM.-1#

ls. interpart. silt.
st. silt. sh. ool.

sh. silt. st. - gry - grn.

ls. offwh. - tan - fn. - xln. fossil.
st. silt. - st. chalky

sh. silt. st. - gry - grn.

ls. offwh. - tan - fn. - xln. dol.
fossil w/ st. in part. ool.
ool. st. - silt. - st. silt. fr. ool.

ls. offwh. - tan - tan - gry - fn. - xln.
dol. w/ st. - some dol. st. ool.
st. in part. - st. ool. - st. ool.
st. chalky.

sh - blk. fissile

sh. silt. st. - gry - brn - grn.

ls. offwh. - tan - tan - fn. - xln.
fossil - st. chalky

sh. silt. st. - gry - dark gry

ls. offwh. - tan - tan - fn. - xln.
fossil - st. - st. chalky

sh - dark gry - blk. carb.

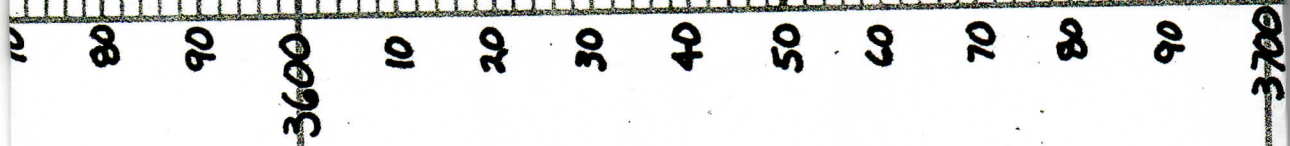
D

F

G

H

I



DST # 2 Snp St
 3781-3814
 Backer failure
 after 3 ft
 50' OC M. 25' 60
 200' diam. 10' 20
 500' w tr.
 FP-36# - - -
 SIP - - -
 MP. 1842-1806#



dev 1°

Dato a/a

Dato - tan. gray fn. Xln. w/ poor fr. interstrat. & barren - on st. - also good color

Dato - tan. gray - fn. Xln. - poor color w/ poor interstrat. & barren. Mostly barren. Δ

Dato - tan. gray - fn. Xln. - mostly barren. Δ. sh. cherty

Dato a/a

