

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	Russell Oil, Inc.
Well Name	McElree-Orr A #30-1
Doc ID	1300284

All Electric Logs Run

BOREHOLE COMPENSATED
COMPUTER PROCESSED INTERP
DUAL INDUCTION
DUAL COMPENSATED POROSITY
MICRORESISTIVITY

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	McElree-Orr A #30-1
Doc ID	1300284

Tops

Name	Top	Datum
ANHYDRITE	2600	+749
BASE ANHYDRITE	2620	+729
HEEBNER	4024	-676
TORONTO	4042	-694
LANSING	4075	-727
MUNCIE CREEK	4258	-908
STARK SHALE	4347	-999
HUSH SHALE	4391	-1043
BASE KC	4430	-1082
PLEASANTON	4437	-1089
MARMATON	4479	-1131
ALTAMONT A	4492	-1144
ATLATMONT B	4522	-1174
ALTAMONT C	4545	-1197
PAWNEE	4578	-1230
MYRICK STATION	4163	-1265
FT SCOTT	4630	-12820
CHEROKEE SHALE	4665	-1317
JOHNSON	4728	-1380
MORROW SHALE	4802	-1454
MISSISSIPPI	4880	-1532
LTD	4935	-1591
RTD	4935	-1587



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Russell Oil, Inc.
POB 8050
Edmond, OK 73083
ATTN: Kitt Noah

S30-15s-36w Logan/KS

McElree Orr 'A' 30-1

Job Ticket: 64623 **DST#: 1**
Test Start: 2016.01.17 @ 11:19:00

GENERAL INFORMATION:

Formation: **LKC 'D'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:19:30
Time Test Ended: 18:26:50
Interval: **4129.00 ft (KB) To 4151.00 ft (KB) (TVD)**
Total Depth: 4151.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Chuck Smith
Unit No: 61
Reference Elevations: 3348.00 ft (KB)
3339.00 ft (CF)
KB to GR/CF: 9.00 ft

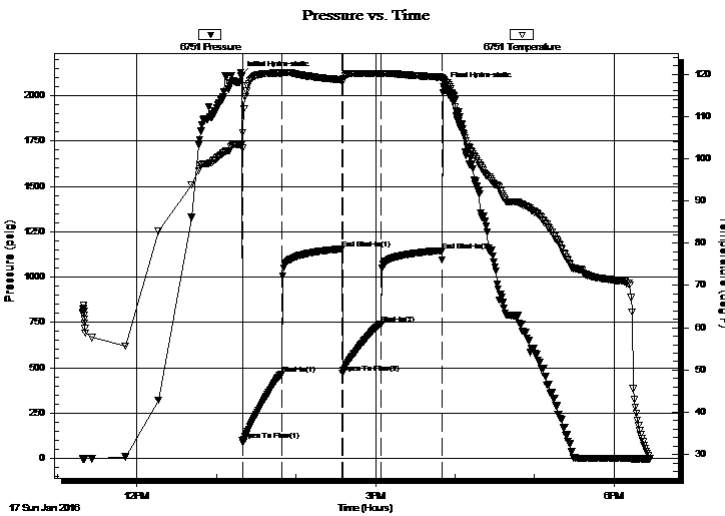
Serial #: 6751

Outside

Press@RunDepth: 742.93 psig @ 4130.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.01.17 End Date: 2016.01.17 Last Calib.: 2016.01.17
Start Time: 11:19:02 End Time: 18:26:50 Time On Btm: 2016.01.17 @ 13:18:30
Time Off Btm: 2016.01.17 @ 15:51:20

TEST COMMENT: 30- B.O.B. @ 3 min.
45- No return.
30- B.O.B. @ 3 1/2 min.
45- No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2108.74	103.37	Initial Hydro-static
1	101.18	102.44	Open To Flow (1)
31	467.02	120.22	Shut-In(1)
77	1154.76	118.57	End Shut-In(1)
77	469.76	118.24	Open To Flow (2)
106	742.93	120.06	Shut-In(2)
152	1145.34	119.24	End Shut-In(2)
153	2049.09	118.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1197.00	W 100w	16.97
398.00	MW 50m 50w	5.64

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil, Inc.

S30-15s-36w Logan/KS

POB 8050
Edmond, OK 73083

McElree Orr 'A' 30-1

Job Ticket: 64623 **DST#: 1**

ATTN: Kitt Noah

Test Start: 2016.01.17 @ 11:19:00

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:	70000 ppm
Viscosity: 67.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1197.00	W 100w	16.968
398.00	MW 50m 50w	5.642

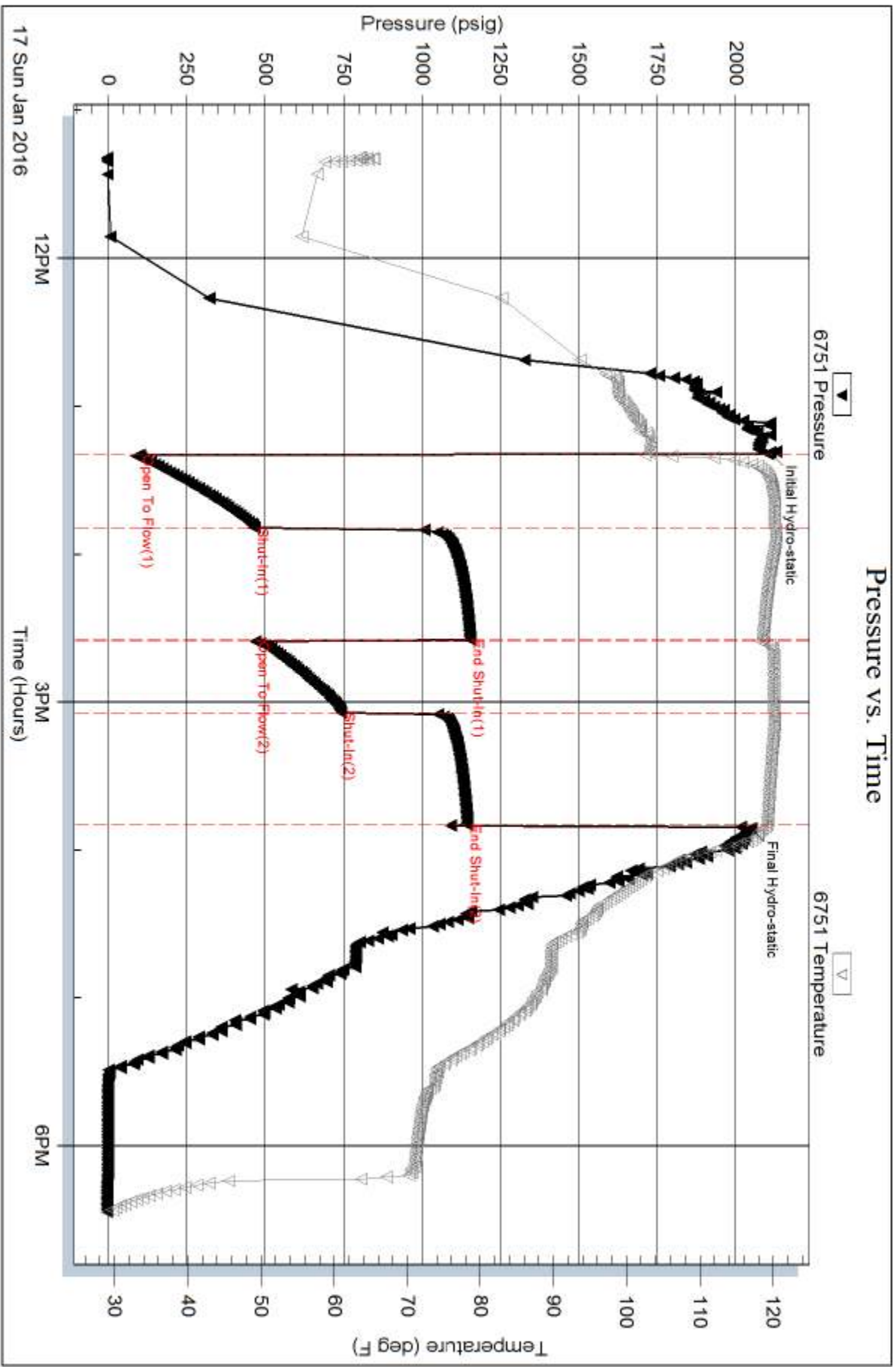
Total Length: 1595.00 ft Total Volume: 22.610 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: No strap, tool landed about 3' lower than expected.

RW: .351 @ 22 Degrees F = 70000 PPM





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Russell Oil, Inc.
POB 8050
Edmond, OK 73083
ATTN: Kitt Noah

S30-15s-36w Logan/KS

McElree Orr 'A' 30-1

Job Ticket: 64624 **DST#: 2**
Test Start: 2016.01.18 @ 19:02:00

GENERAL INFORMATION:

Formation: **LKC 'I'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:59:40
Time Test Ended: 02:03:15
Interval: **4292.00 ft (KB) To 4320.00 ft (KB) (TVD)**
Total Depth: 4320.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Smith
Unit No: 61
Reference Elevations: 3348.00 ft (KB)
3339.00 ft (CF)
KB to GR/CF: 9.00 ft

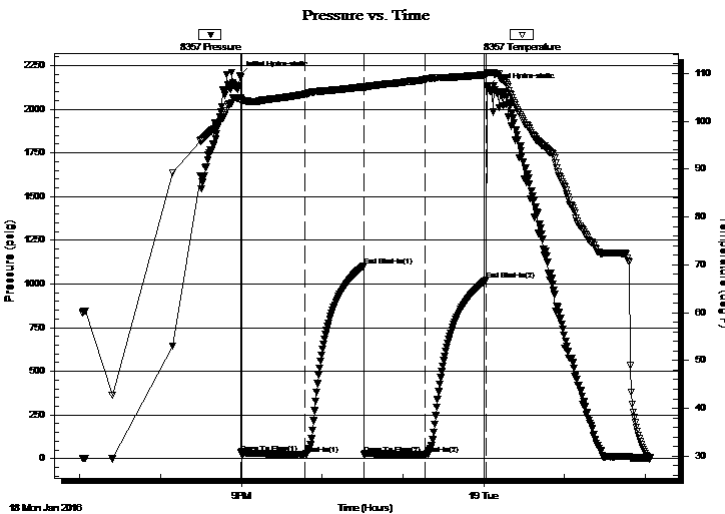
Serial #: 8357

Inside

Press@RunDepth: 25.45 psig @ 4294.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.01.18 End Date: 2016.01.19 Last Calib.: 2016.01.19
Start Time: 19:02:02 End Time: 02:03:15 Time On Btm: 2016.01.18 @ 20:58:30
Time Off Btm: 2016.01.19 @ 00:02:24

TEST COMMENT: 45- 1/2" Blow throughout.
45- No return.
45- No blow .
45- No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2190.35	104.68	Initial Hydro-static
2	33.45	104.24	Open To Flow (1)
49	26.29	105.66	Shut-In(1)
93	1106.15	107.27	End Shut-In(1)
93	26.02	106.80	Open To Flow (2)
139	25.45	108.81	Shut-In(2)
184	1023.60	109.76	End Shut-In(2)
184	2122.75	110.07	Final Hydro-static

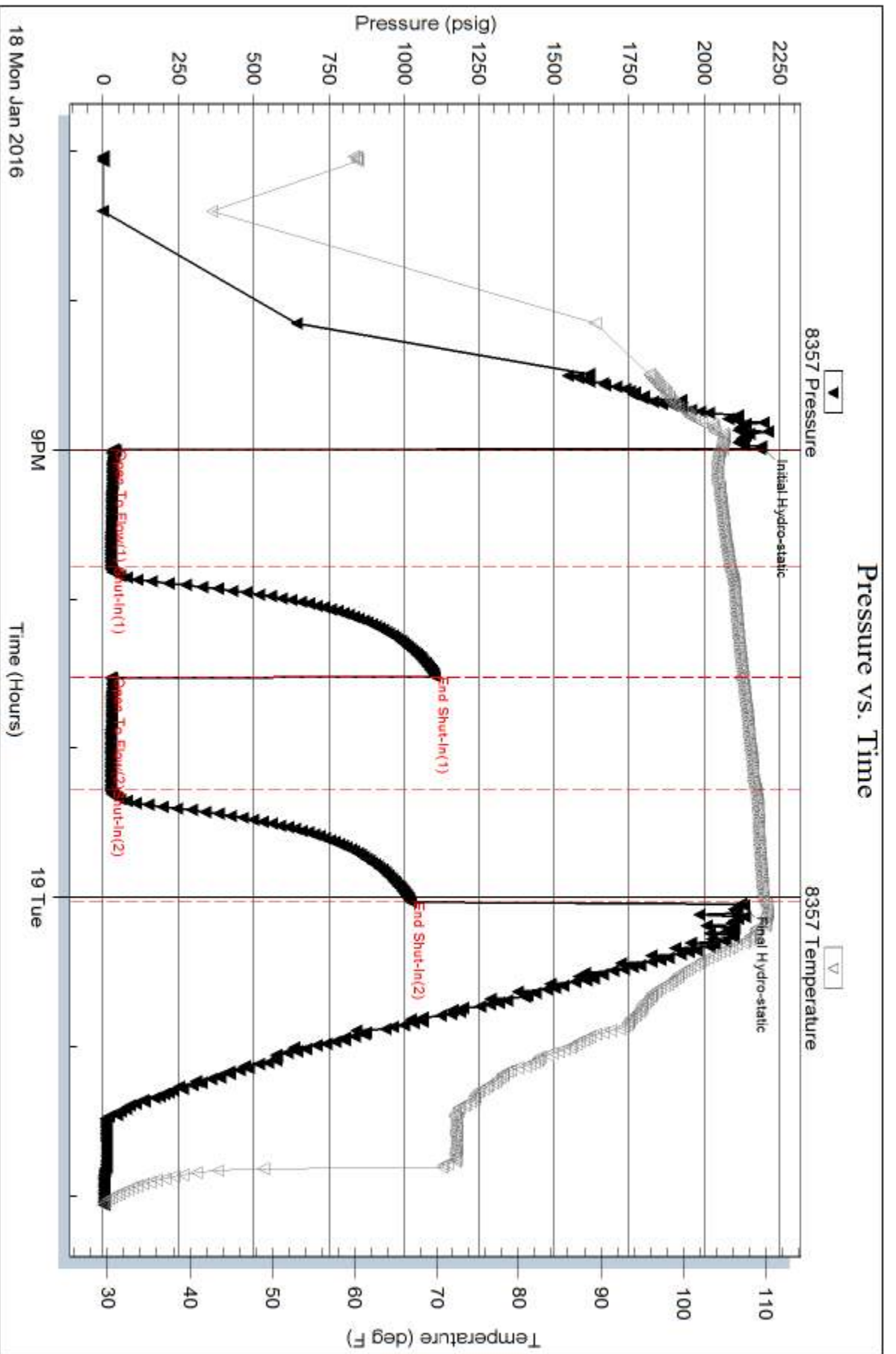
Recovery

Length (ft)	Description	Volume (bbl)
0.00	API: @ Degrees F =	0.00
0.00	RW: . @ Degrees F = PPM	0.00
10.00	OSM 100m	0.14

* Recovery from multiple tests

Gas Rates

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

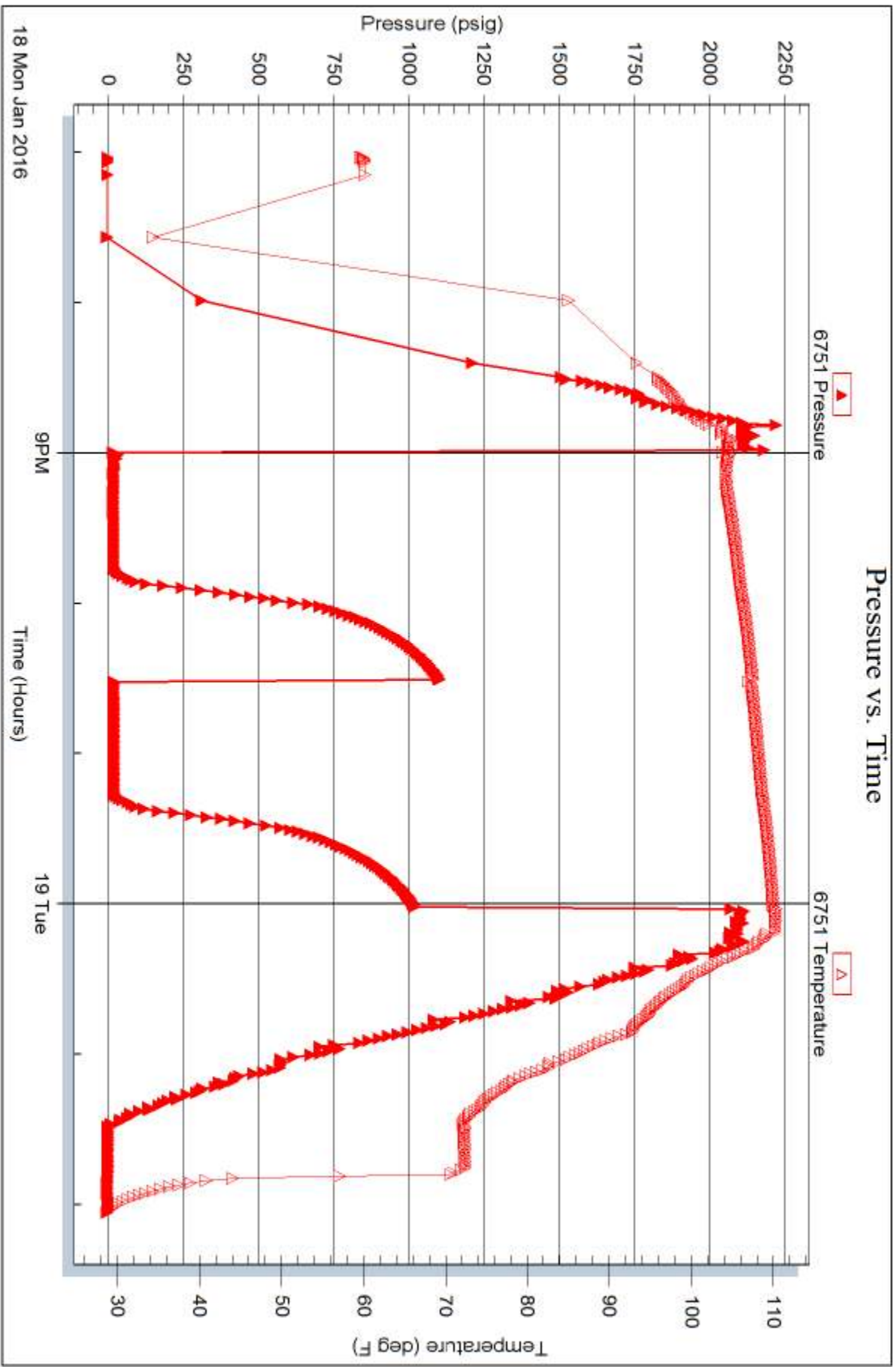


Serial #: 6751

Outside Russell Oil, Inc.

McBee Orr 'A' 30-1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Russell Oil, Inc.**

POB 8050
Edmond, OK 73083

ATTN: Kitt Noah

McElree Orr 'A' 30-1

S30-15s-36w Logan/KS

Start Date: 2016.01.20 @ 07:40:02

End Date: 2016.01.20 @ 12:25:30

Job Ticket #: 64625 DST #: 3

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

Printed: 2016.01.20 @ 16:26:53



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil, Inc.

S30-15s-36w Logan/KS

POB 8050
Edmond, OK 73083

McElree Orr 'A' 30-1

Job Ticket: 64625

DST#: 3

ATTN: Kitt Noah

Test Start: 2016.01.20 @ 07:40:02

Tool Information

Drill Pipe:	Length: 4445.00 ft	Diameter: 3.82 inches	Volume: 63.01 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 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: lb
			<u>Total Volume: 63.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.50 ft			String Weight: Initial lb
Depth to Top Packer:	4459.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	92.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4432.50	
Shut In Tool	5.00			4437.50	
Hydraulic tool	5.00			4442.50	
Jars	5.00			4447.50	
Safety Joint	2.50			4450.00	
Packer	5.00			4455.00	27.50 Bottom Of Top Packer
Packer	4.00			4459.00	
Stubb	1.00			4460.00	
Perforations	1.00			4461.00	
Recorder	0.00	8357	Inside	4461.00	
Recorder	0.00	6751	Outside	4461.00	
Perforations	26.00			4487.00	
Change Over Sub	1.00			4488.00	
Drill Pipe	32.00			4520.00	
Change Over Sub	1.00			4521.00	
Bullnose	3.00			4524.00	65.00 Bottom Packers & Anchor
Total Tool Length:	92.50				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil, Inc.

S30-15s-36w Logan/KS

POB 8050
Edmond, OK 73083

McElree Orr 'A' 30-1

Job Ticket: 64625 **DST#: 3**

ATTN: Kitt Noah

Test Start: 2016.01.20 @ 07:40:02

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	API: @ Degrees F =	0.000
0.00	RW: . @ Degrees F = PPM	0.000

Total Length: ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

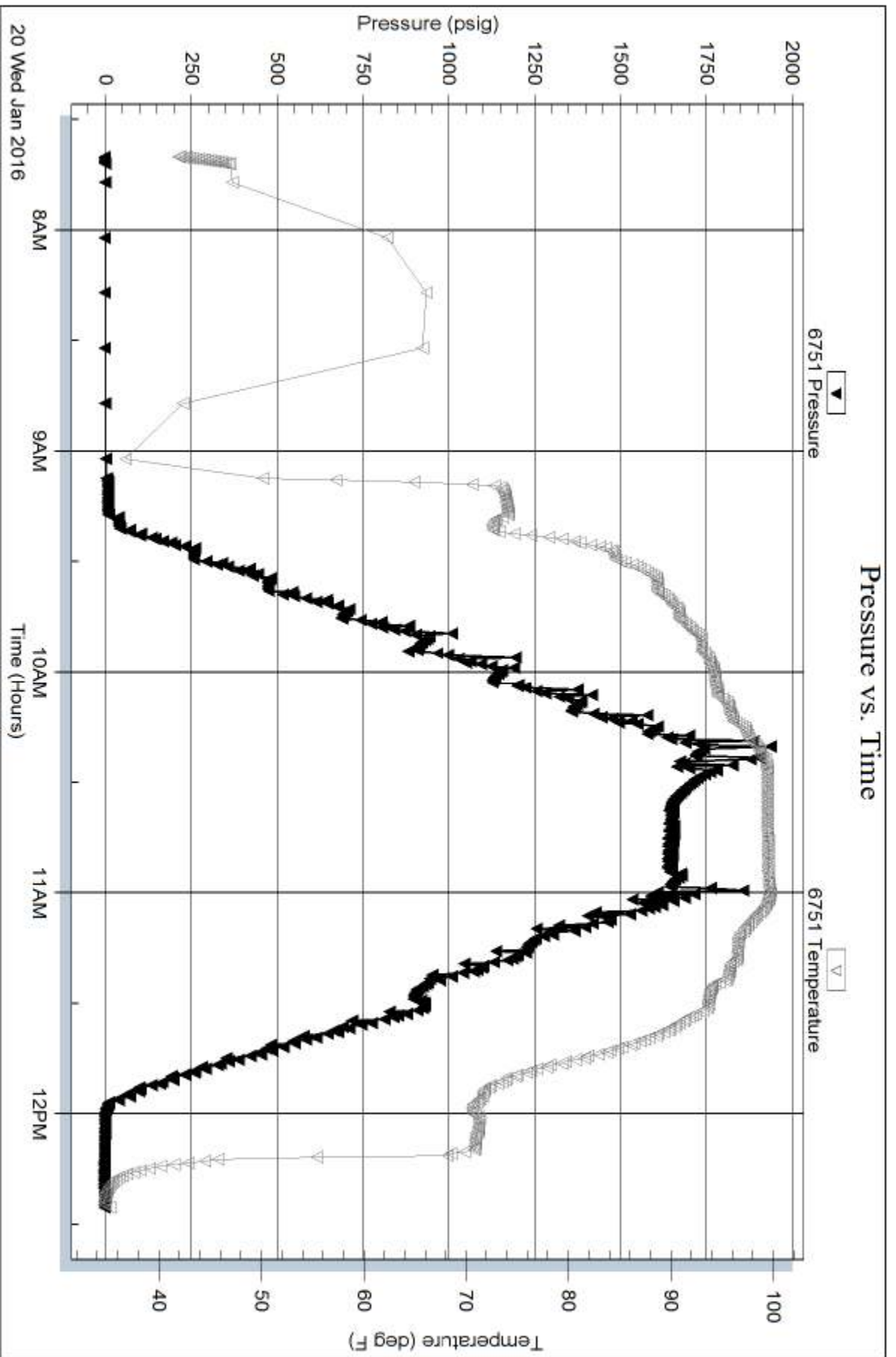
Recovery Comments:

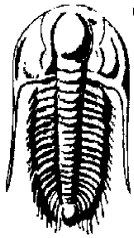
Serial #: 6751

Outside Russell Oil, Inc.

McBee Orr 'A' 30-1

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Russell Oil, Inc.
POB 8050
Edmond, OK 73083
ATTN: Kitt Noah

S30-15s-36w Logan/KS

McElree Orr 'A' 30-1

Job Ticket: 64501 **DST#: 4**
Test Start: 2016.01.20 @ 21:45:00

GENERAL INFORMATION:

Formation: **Altamont 'A'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:26:00
Time Test Ended: 06:09:39
Interval: **4459.00 ft (KB) To 4524.00 ft (KB) (TVD)**
Total Depth: 4524.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Smith
Unit No: 61
Reference Elevations: 3348.00 ft (KB)
3339.00 ft (CF)
KB to GR/CF: 9.00 ft

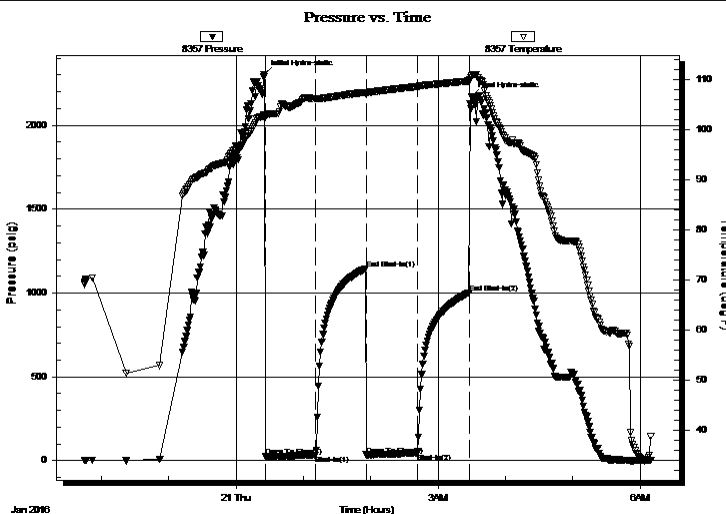
Serial #: 8357

Inside

Press @ Run Depth: 44.30 psig @ 4461.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.01.20 End Date: 2016.01.21 Last Calib.: 2016.01.21
Start Time: 21:45:02 End Time: 06:09:40 Time On Btm: 2016.01.21 @ 00:24:50
Time Off Btm: 2016.01.21 @ 03:30:00

TEST COMMENT: 45- 3" Blow .
45- No return.
45- Surface blow .
45- No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2304.22	102.97	Initial Hydro-static
2	23.58	102.42	Open To Flow (1)
46	33.85	106.24	Shut-In(1)
91	1146.03	107.55	End Shut-In(1)
91	34.81	107.05	Open To Flow (2)
137	44.30	108.69	Shut-In(2)
183	1002.61	109.81	End Shut-In(2)
186	2171.87	110.85	Final Hydro-static

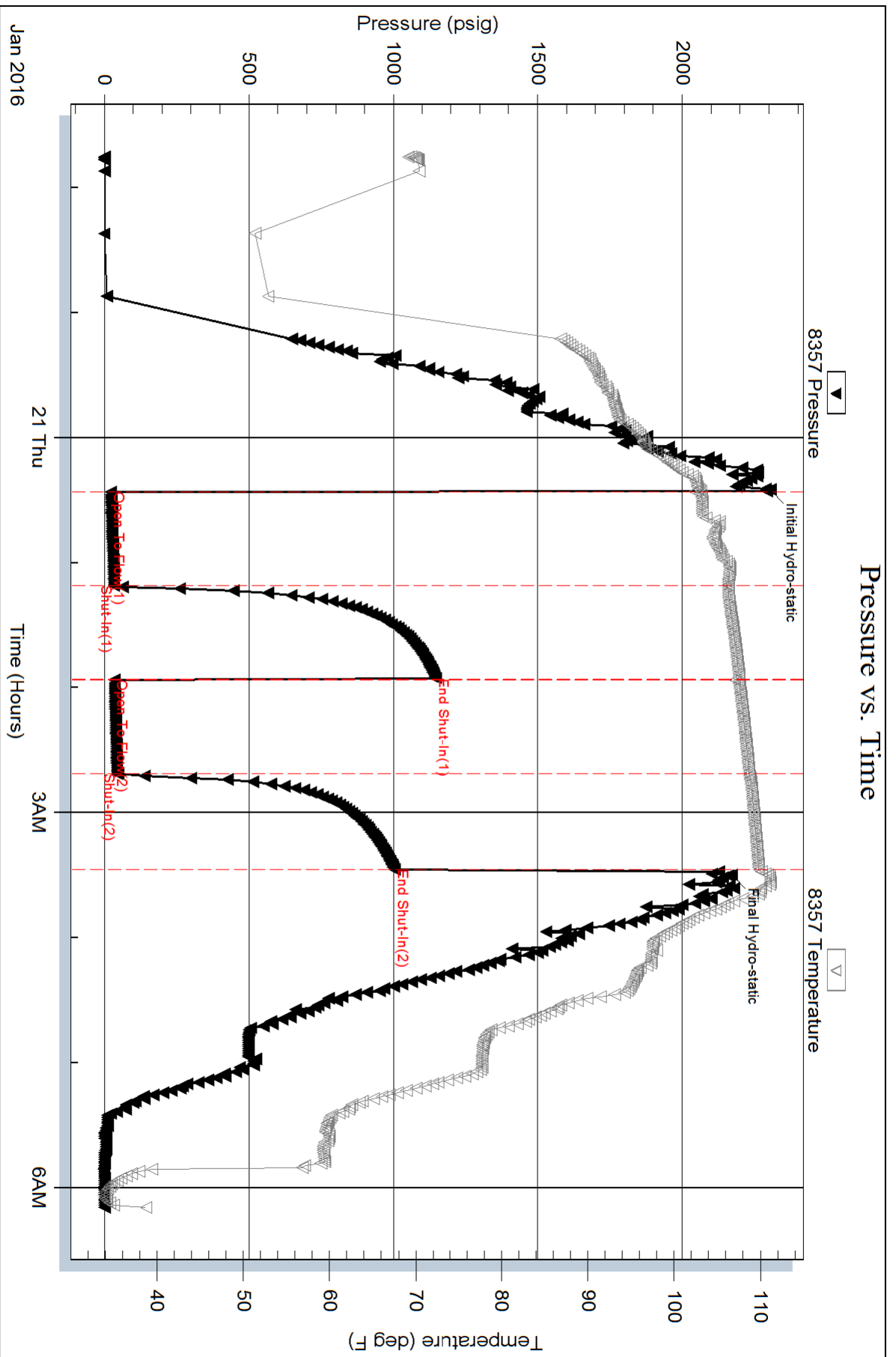
Recovery

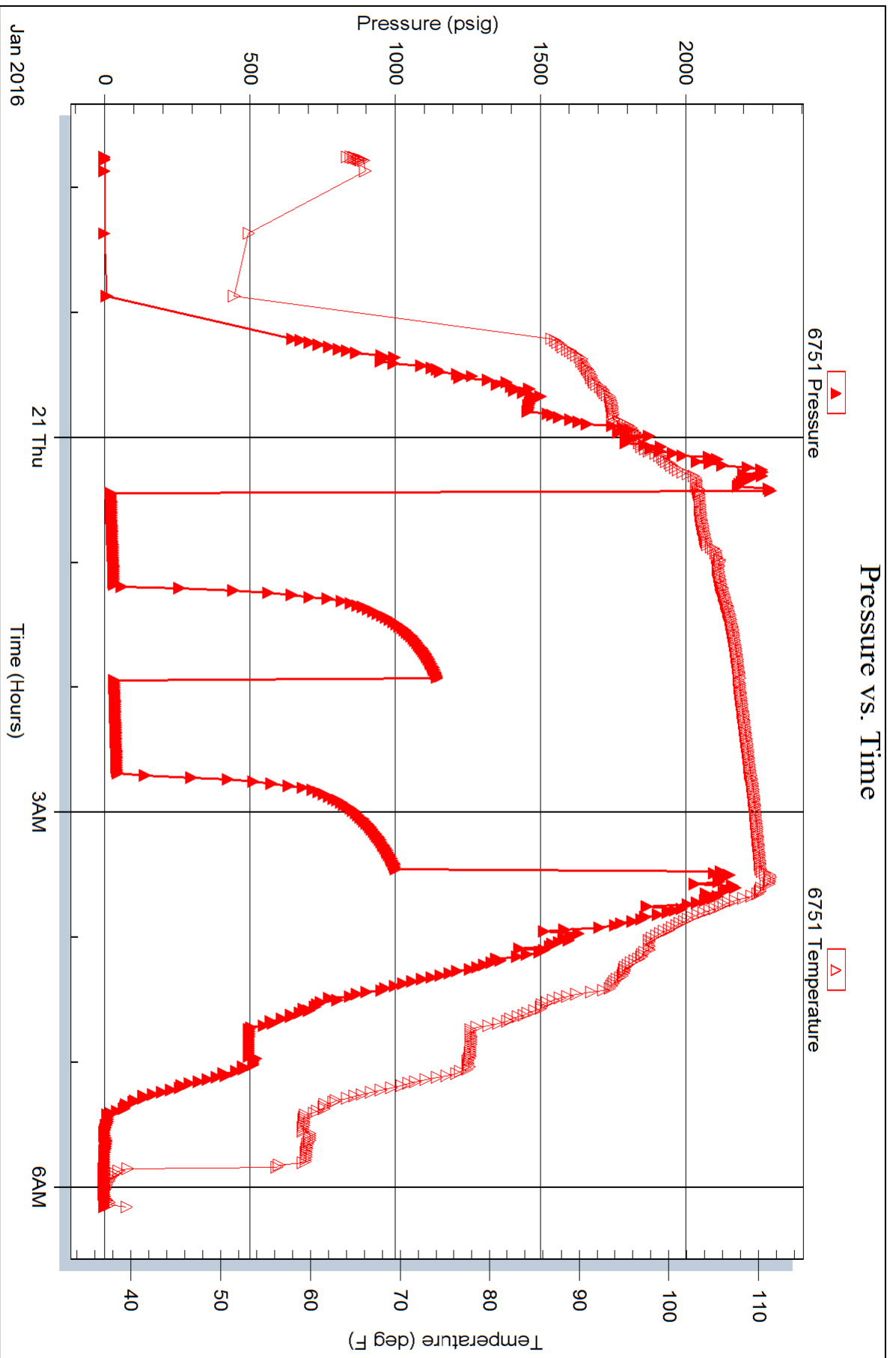
Length (ft)	Description	Volume (bbl)
0.00	API: @ Degrees F =	0.00
0.00	RW: @ Degrees F = PPM	0.00
50.00	OSM 100m	0.71

Gas Rates

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

* Recovery from multiple tests







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Russell Oil, Inc.
POB 8050
Edmond, OK 73083
ATTN: Kitt Noah

S30-15s-36w Logan/KS

McElree Orr 'A' 30-1

Job Ticket: 64502 **DST#: 5**
Test Start: 2016.01.21 @ 16:46:00

GENERAL INFORMATION:

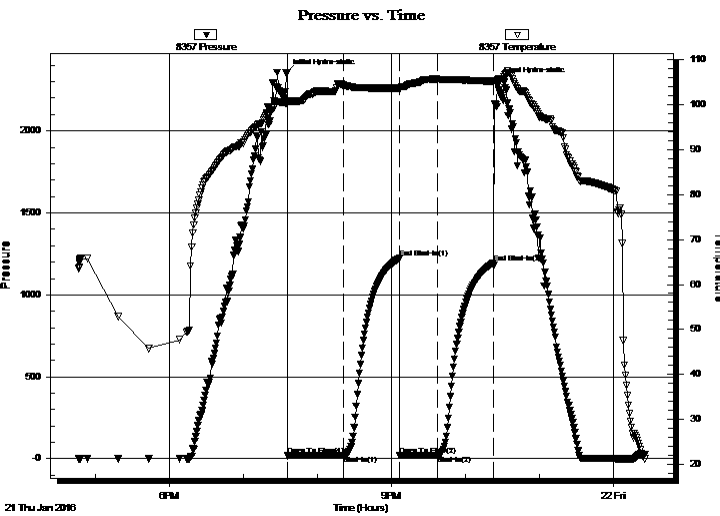
Formation: **Altamont 'B'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:35:30
Time Test Ended: 00:26:00
Interval: **4517.00 ft (KB) To 4546.00 ft (KB) (TVD)**
Total Depth: 4546.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Reference Elevations: 3348.00 ft (KB)
3339.00 ft (CF)
KB to GR/CF: 9.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Smith
Unit No: 61

Serial #: 8357

Inside

Press @ Run Depth: 22.73 psig @ 4518.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.01.21 End Date: 2016.01.22 Last Calib.: 2016.01.22
Start Time: 16:46:02 End Time: 00:26:00 Time On Btm: 2016.01.21 @ 19:34:20
Time Off Btm: 2016.01.21 @ 22:25:40

TEST COMMENT: 45- 1/2" Blow .
45- No return.
45- No blow .
45- No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2352.38	100.35	Initial Hydro-static
2	19.18	100.25	Open To Flow (1)
47	21.08	104.31	Shut-In(1)
92	1223.59	103.75	End Shut-In(1)
93	21.73	103.41	Open To Flow (2)
124	22.73	105.65	Shut-In(2)
169	1194.35	105.30	End Shut-In(2)
172	2299.54	105.12	Final Hydro-static

Recovery

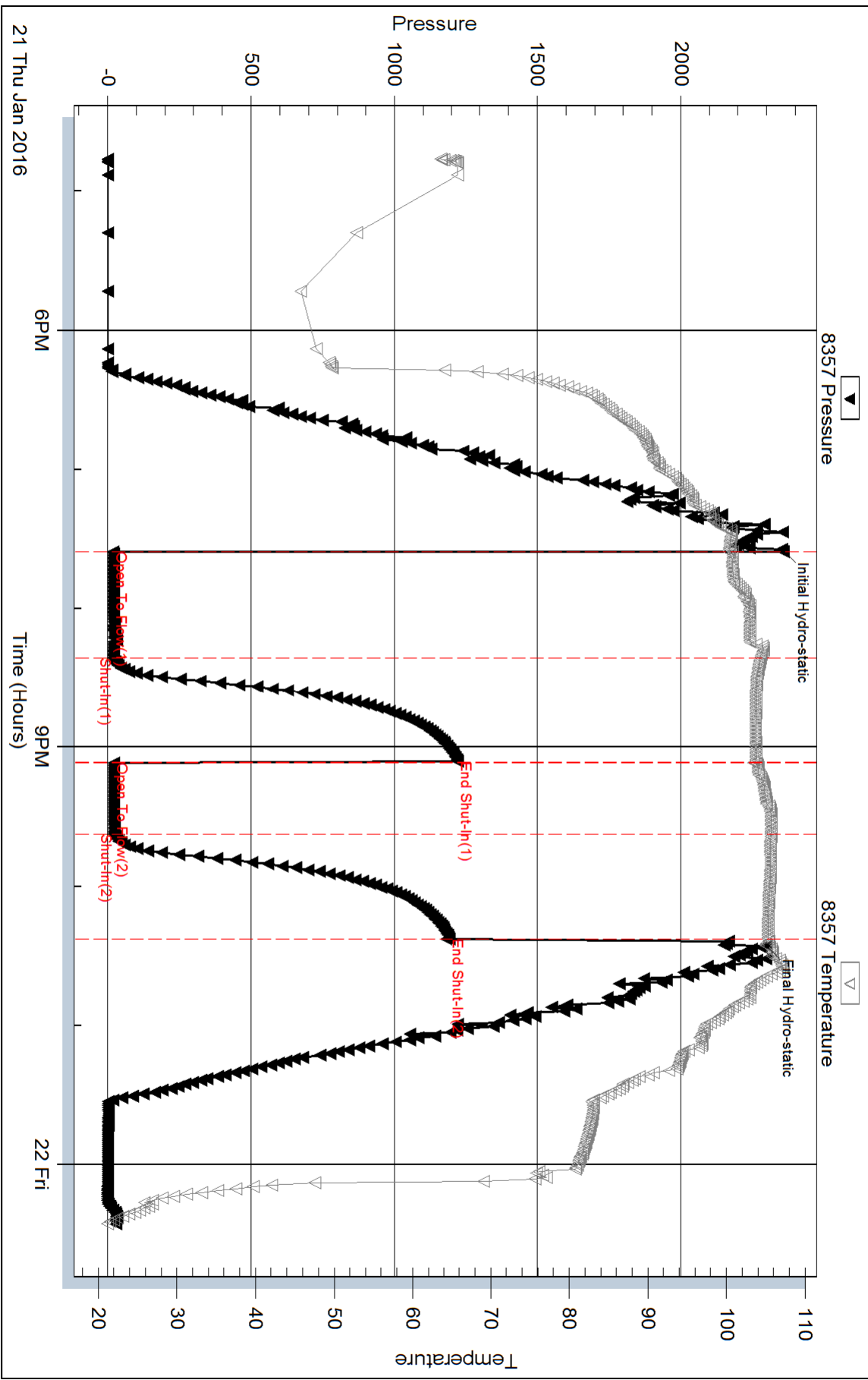
Length (ft)	Description	Volume (bbl)
0.00	API: @ Degrees F =	0.00
0.00	RW: @ Degrees F = PPM	0.00
10.00	OSM 100m	0.14

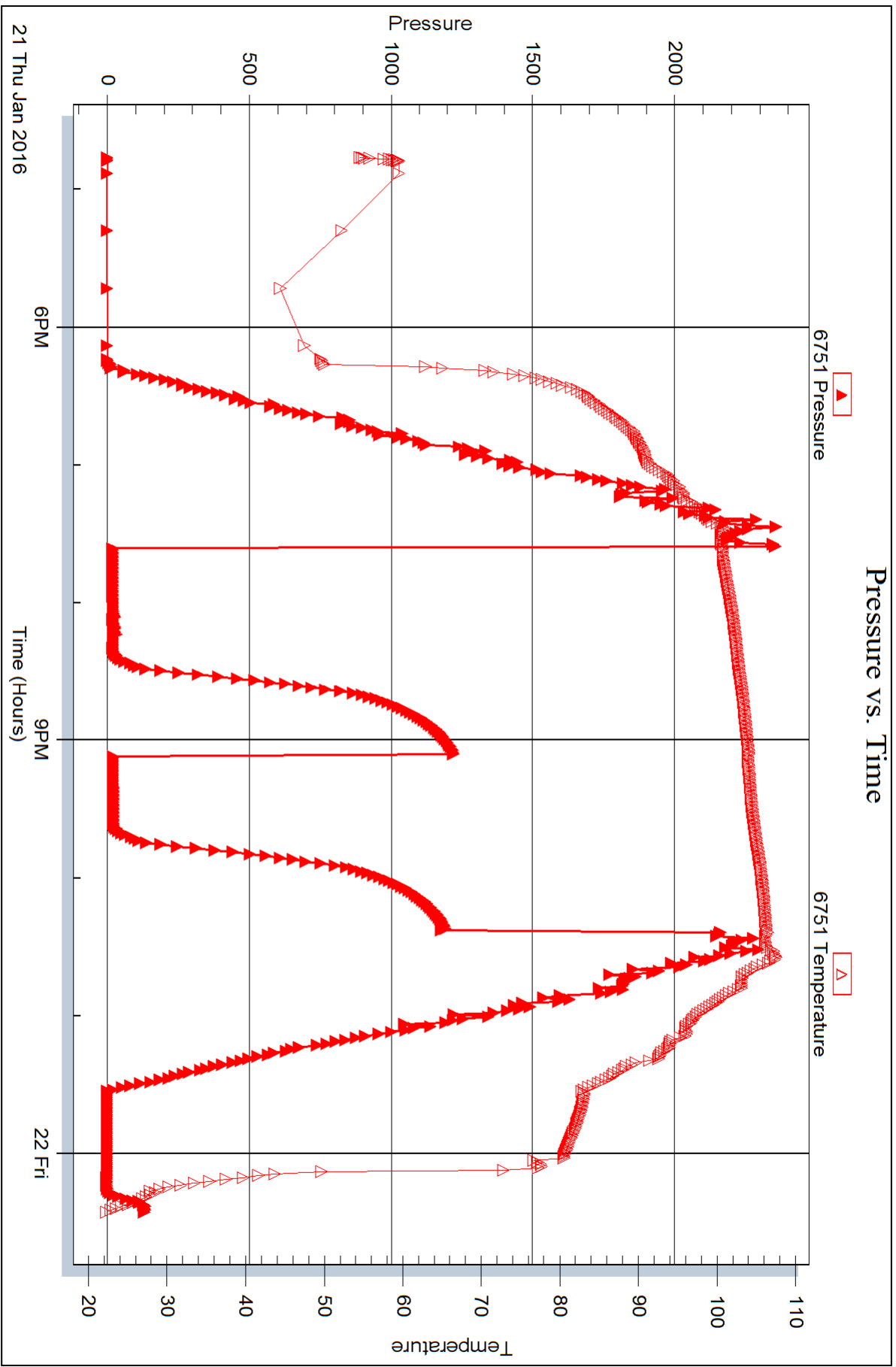
Gas Rates

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

* Recovery from multiple tests

Pressure vs. Time





KITT NOAH

PETROLEUM GEOLOGIST
Kansas License #229



GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

WELL NO: #30-1
SEC: 30 TWP: 15S RNG: 36W

COUNTY: Logan STATE: Kansas

OPERATOR: Russell Oil, Inc.
LEASE: McEFree Orr "A" WELL NO: #30-1
LOCATION: 1895 FN & 1470 FE

CONTRACTOR: Southwind Drilling Co #8
COMM: 1-11-2016 COMPLETION: 1-24-2016

FORMATION TOG LOG
ANHYDRITE 2602 (+746)
B/ANHYDRITE 2622 (+726)
Heebner 4025 (-677)
TORONTO 4045 (-697)
LANSING 4077 (-729)
B/KC 4344 (-996)
Marmaton 4482 (-1134)
Pawnee 4580 (-1232)
Myrick Sta 4612 (-1264)
Fort Scott 4632 (-1284)
Cherokee 4661 (-1313)
Johnson Zn 4724 (-1376)
Morrow Sh 4803 (-1455)
Mississippian 4880 (-1532)

CONTRACTOR: Southwind Drilling Co #8
COMM: 1-11-2016 COMPLETION: 1-24-2016
RFD: 4935 LTD: 4939
SAMPLES SAVED FROM: 3700 TO TD
DRILLING TIME SAVED FROM: 3700 TO TD
SAMPLES EXAMINED FROM: 3700 TO TD
GEO. ORICAL SUPERVISION FROM: 3920 TO TD
MUD JIP: 3450 MUD TYPE: Chemical
Mudco - Reddy/KH/MS/MS/Masteras
DRILL STEAMERS: JAKEN, G
LITHOBLITE - CRACK SMITH

SURVEYS: Pioneer Energy Services
Dual Induction
Microlog
Borehole Compensated Sonic

OPERATOR: Russell Oil, Inc.
LEASE: McEFree Orr "A" WELL NO: #30-1
API: 15-109-21450 FIELD: Wildcat

LOCATION: 1895 FN & 1470 FE
SEC: 30 TWP: 15S RNG: 36W
COUNTY: Logan STATE: Kansas

OPERATOR: Russell Oil, Inc.
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API: 15-109-21450 FIELD: Wildcat

LOCATION: 1895 FN & 1470 FE
SEC: 30 TWP: 15S RNG: 36W
COUNTY: Logan STATE: Kansas

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LEGEND



DEPTH DRILLING TIME IN MINUTES PER FOOT
Rate of penetration increases
5" 10" 15" 20"

LITHOLOGY SAMPLE DESCRIPTIONS REMARKS

2600 Anhydrite conn EL 2602 (+746)

B/Anhydrite conn EL 2622 (+726)

3700 Sh, lt gry & red
LS, crm-gry fn xln sli fossil pr visible poro NSNO
LS, crm fn xln fossil fr interpart poro NSNO
LS, AA
LS, tan-gry fn xln fossil w/dk inclusions pr interpart poro NSNO
LS, AA: dense
Sh, lt gry & green
LS, crm-gry fn xln v. lg. oolites pr fr interpart poro NSNO sc fr barren NSNO: sm embedded w/ht chert
LS, crm-wht fn xln v. fossil pr fr interpart poro NSNO
Sh, lt gry & green
LS, tan-gry fn xln sli fossil sm silty; pr interpart poro NSNO
LS, crm fn xln fossil & ool fr interpart poro NSNO
LS, crm fn xln v. ool pr fr interpart poro NSNO sc gry angular chert
Sh, gry, green, red
LS, crm fn xln v. ool pr fr interpart poro: subchaly: NSNO sli quest odor
LS, crm-gry fn xln sli fossil pr vis poro: dense NSNO
Sh, red & green
LS, crm fn xln v. fossil & ool subchalyd pr interpart poro barren NSNO
LS, AA
Sh, dk gry, green, maroon
LS, gry fn xln fossil pr fr interpart poro NSNO
LS, crm fn xln fossil pr interpart poro: sc vug poro NSNO
Sh, abun dk gry
LS, tan-gry fn xln fossil fr interpart poro NSNO
LS, AA
Sh, blk carbonaceous
LS, tan-gry fn xln pr visible poro NSNO
LS, wht fn xln fossil fr interpart poro: barren NSNO
Sh, v. dk gry & maroon
LS, crm-gry fn xln mottled sli fossil pr interpart poro NSNO
LS, crm-tan fn xln sli fossil pr interpart poro NSNO
Sh, gry & maroon
LS, crm-tan fn xln fossil & ool interpart poro subchaly NSNO
Sh, blk carbonaceous
Sh, gry & maroon
LS, AA
LS, crm-wht fn xln sli fossil pr interpart poro NSNO sc tan chert
LS, crm-wht fn xln fossil pr interpart poro: v. chaly-smpls washing wht; NSNO sc pieces wht chert
LS, crm-tan fn xln sli fossil pr interpart poro NSNO sc wht chert
Sh, blk carbonaceous
Sh, gry, green, maroon

4025 Heebner EL 4025 (-677)

4045 Toronto EL 4045 (-697)

4077 Lansing EL 4077 (-729)

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4258 Muncie Crk EL 4258 (-910)

4344 Stark EL 4344 (-996)

4397 Hush EL 4397 (-1049)

4437 B/KC EL 4437 (-1089)

4482 Pleasanton EL 4482 (-1134)

4580 Marmaton EL 4580 (-1232)

4612 Myrick Sta EL 4612 (-1264)

4632 Fort Scott EL 4632 (-1284)

4661 Cherokee EL 4661 (-1313)

4724 Johnson Zn EL 4724 (-1376)

4803 Morrow Sh EL 4803 (-1455)

4880 Mississippian EL 4880 (-1532)

5" 10" 15" 20"
Rate of penetration increases
DRILLING TIME IN MINUTES PER FOOT

LITHOLOGY SAMPLE DESCRIPTIONS REMARKS

5" 10" 15" 20"
Rate of penetration increases
DRILLING TIME IN MINUTES PER FOOT

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Rate of penetration increases
DRILLING TIME IN MINUTES PER FOOT

LITHOLOGY SAMPLE DESCRIPTIONS REMARKS

5" 10"



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER 51451
LOCATION Oakley, KS
FOREMAN Miles Shaw

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
1-12-16	7093	McElroy-Occ A #2nd	30	15S	36W	Logan	
CUSTOMER Russell Oil		Russell #115 5 locs 1E 115 W-10		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS				753	Corby		
CITY		STATE		ZIP CODE			
				S2E1T-129	Robb		

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 330 CASING SIZE & WEIGHT 8 5/8" 23 lb
 CASING DEPTH 330' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL 1.36 WATER gal/sk _____ CEMENT LEFT IN CASING 20'
 DISPLACEMENT 18.75 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safe meeting address on South wind Drilling. Pump casing is volume mix 250 lb class A 38 calcium 22 gal Surface blend II desalinated water cement. Cement came to collar and fell 1" down 40' from surface too off with 50% class A cement with 38 calcium 22 gal and 100# Colton seed hulls cement did not fall

Thanks Miles & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CECH140	1	PUMP CHARGE	1500.00	1500.00
CE0602	30	MILEAGE	7.15	214.50
CE0710	14.57 tons	Ton mileage delivery	1.75	769.92
CE5871	310 SK	Surface Blend II	2.30	7130.00
CP556	1	8 5/8 Centralizer	530.00	530.00
			Subtotal	10139.42
			less 358 discount	3548.79
			Subtotal	6590.63
			SALES TAX	
			ESTIMATED	
			TOTAL	

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AUTHORIZATION William Shaw TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
820-431-9210 or 800-467-8676

TICKET NUMBER 49650
LOCATION Chal., Ks
FOREMAN Jerry V

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-24-16	7043	M ^o Ellice - Dir A #30-1	30	15S	36W	Logan
CUSTOMER Russell Oil			Russell Sp			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			5 to Cypole	731	Cody R	
STATE			1E 1/4 S	515	Rob S	
ZIP CODE			U. 10			

JOB TYPE plug HOLE SIZE 7 7/8 HOLE DEPTH 4600 CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2 TUBING _____ OTHER _____
 SLURRY WEIGHT 13.8 SLURRY VOL 147 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: South wind 5 in. non South wind Dir 8 plug as ordered with 255
4 sks 60/40 4% gel 1/4" # 50 sks per sk

50 @ 2610'
10 @ 1390'
50 @ 380'
10 @ 40' with 8 5/8 wooden Plug
15 sks MH 30 sks Ret h

Thank you
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0451	1	PUMP CHARGE	1900 ⁰⁰	1900 ⁰⁰
CE0002	30	MILEAGE	7 ⁵⁰	214 ⁵⁰
CE0711	10.97	for mileage delivery min	660 ⁰⁰	660 ⁰⁰
CC5829	255 sks	Life blend V	16 ⁰⁰	4080 ⁰⁰
CC6075	64	Flowseal	200	12800
CP8228	1	8 5/8 wooden plug	165 ⁰⁰	165 ⁰⁰
			sub total	7147 ⁵⁰
			-35%	2501 ⁶³
			sub total	4645 ⁸⁵
			SALES TAX	
			ESTIMATED	
			TOTAL	

Revis 3737

AUTHORIZATION [Signature] TITLE _____ DATE _____

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