

#### Kansas Corporation Commission Oil & Gas Conservation Division

#### 1082262

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

# WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R 🗌 East 🗌 West
Address 2:	Feet from North / South Line of Section
City:	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil         WSW         SWD         SIOW           Gas         D&A         ENHR         SIGW           OG         GSW         Temp. Abd.           CM (Coal Bed Methane)         Cathodic         Other (Core, Expl., etc.):	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: sx cmt.
If Workover/Re-entry: Old Well Info as follows:	
Operator: Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:  Deepening Re-perf. Conv. to ENHR Conv. to SWD  Conv. to GSW	Chloride content: ppm Fluid volume: bbls  Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:  Dual Completion Permit #:  SWD Permit #:	Operator Name:
☐ ENHR         Permit #:           ☐ GSW         Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or Recompletion Date	

#### **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
Letter of Confidentiality Received
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT   I   II   Approved by: Date:

Side Two



Operator Name: \_ Lease Name: \_ \_ Well #: \_ County: \_ INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wireline Logs surveyed. Attach final geological well site report. **Drill Stem Tests Taken** Yes No Log Formation (Top), Depth and Datum Sample (Attach Additional Sheets) Name Top Datum Samples Sent to Geological Survey ☐ Yes □ No Cores Taken Yes No Electric Log Run Electric Log Submitted Electronically Yes No (If no, Submit Copy) List All E. Logs Run: CASING RECORD Used New Report all strings set-conductor, surface, intermediate, production, etc. Size Hole Size Casing Weight # Sacks Type and Percent Type of Purpose of String Drilled Set (In O.D.) Lbs. / Ft. Additives Depth Cement Used ADDITIONAL CEMENTING / SQUEEZE RECORD Purpose: Depth Type of Cement # Sacks Used Type and Percent Additives Top Bottom Perforate **Protect Casing** Plug Back TD Plug Off Zone PERFORATION RECORD - Bridge Plugs Set/Type Acid, Fracture, Shot, Cement Squeeze Record Shots Per Foot Specify Footage of Each Interval Perforated (Amount and Kind of Material Used) Depth TUBING RECORD: Size: Set At: Packer At: Liner Run: No Yes Producing Method: Date of First, Resumed Production, SWD or ENHR. Pumping Gas Lift Other (Explain) Flowing **Estimated Production** Bbls. Water Bbls. Gas-Oil Ratio Oil Gas Mcf Gravity Per 24 Hours **DISPOSITION OF GAS:** METHOD OF COMPLETION: PRODUCTION INTERVAL: Open Hole Dually Comp. Perf. Commingled Vented Sold Used on Lease (Submit ACO-5) (Submit ACO-4) (If vented, Submit ACO-18.) Other (Specify)

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Pittenger 3
Doc ID	1082262

## Tops

Name	Тор	Datum
Anhydrtie	1496	781
Heebner	3798	-1521
Lansing	3844	-1567
Base Kansas City	4171	-1894
Pawnee	4294	-2017
Ft. Scott	4324	-2047
Cherokee	4341	-2064
Mississippian	4410	-2133
TD	4422	-2145

## **Geological Report**

American Warrior, Inc.
Pittenger #3
2310' FNL & 530' FEL
Sec. 34 T19s R21w
Ness County, Kansas



American Warrior, Inc.

#### **General Data**

Well Data:	American Warrior, Inc. Pittenger #3 2310' FNL & 530' FEL Sec. 34 T19s R21w Ness County, Kansas API # 15-135-25347-0000
Drilling Contractor:	Petromark Drilling, LLC Rig #1
Geologist:	Jason Alm
Spud Date:	March 6, 2012
Completion Date:	March 14, 2012
Elevation:	2271' Ground Level 2277' Kelly Bushing
Directions:	Bazine KS, East on Hwy 96 to HH road, South on HH road 6.5 mi. West into location.
Casing:	223' 8 5/8" surface casing 4421' 5 1/2" production casing
Samples:	10' wet and dry, 3700' to RTD
Drilling Time:	3700' to RTD
Electric Logs:	None
Drillstem Tests:	One, Trilobite Testing, Inc. "Jason McLemore"
Problems:	None
Remarks:	Six stands of drill collars were run on DST #1 vs. two which are usually run. The extra collars lead the fluid recovery to be misleading, if the normal two stands of collars were run the recovery would

have been dramatically less.

#### **Formation Tops**

	American Warrior, Inc.
	Pittenger #3
	Sec. 34 T19s R21w
Formation	2310' FNL & 530' FEL
Anhydrite	1496', +781
Base	1527', +750
Heebner	3798', -1521
Lansing	3844', -1567
BKc	4171', -1894
Pawnee	4294', -2017
Fort Scott	4324', -2047
Cherokee	4341', -2064
Mississippian	4410', -2133
RTD	4422', -2145

### **Sample Zone Descriptions**

#### Mississippian Osage (4410', -2133): Covered in DST #1

Dolo –  $\Delta$  – Fine sucrosic crystalline with fair vuggy porosity, heavy triptolic chert, weathered with good vuggy porosity, light to good oil stain and saturation in porosity, good show of free oil, good odor, fair to bright yellow fluorescents, 26 units hotwire.

#### **Drill Stem Tests**

Trilobite Testing, Inc. "Jason McLemore"

#### DST #1 <u>Mississippian Osage</u>

Interval (4411' – 4420') Anchor Length 9'

IHP - 2245 #

IFP - 45" - B.O.B. 40 min. 16-93 #
ISI - 45" - Built to ½ in. 1340 #
FFP - 45" - Built to 8 in. 101-151 #
FSI - 45" - Built to ½ in. 1322 #

FHP - 2099 # BHT - 117°F

Recovery: 320' GCO

70' HMWCO 60% Oil, 10% Water

#### **Structural Comparison**

	American Warrior, Inc. Pittenger #3 Sec. 34 T19s R21w	American Warrior, Inc. Pittenger #2 Sec. 34 T19s R21w		American Warrior, Inc. Pittenger-Moore #1 Sec. 34 T19s R21w	
Formation	2310' FNL & 530' FEL	2030' FNL & 330' FEL		2470' FNL & 880' FEL	
Anhydrite	1496', +781	1496', +784	(-3)	1488', +783	FL
Base	1527', +750	NA	NA	1518', +753	(-3)
Heebner	3798', -1521	3800', -1520	<b>(-1)</b>	3788', -1517	(-4)
Lansing	3844', -1567	3846', -1566	<b>(-1)</b>	3832', -1561	(-6)
BKc	4171', -1894	NA	NA	4161', -1890	(-4)
Pawnee	4294', -2017	NA	NA	4284', -2013	(-4)
Fort Scott	4324', -2047	4330', -2050	(+3)	4318', -2047	FL
Cherokee	4341', -2064	4349', -2069	(+5)	4334', -2063	(-1)
Mississippian	4410', -2133	4420', -2140	(+7)	4422', -2151	(+18)

#### **Summary**

The location for the Pittenger #3 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. One drill stem test was conducted which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Pittenger #3 well.

#### **Recommended Perforations**

Mississippian Osage (4410' – 4420') DST #1

Respectfully Submitted,

Jason T. Alm Hard Rock Consulting, Inc.

Hard Rock Consulting, Inc.  Jason Alm Petroleum Geologist P.O. Box 1260 Hays, KS 67601  API# IS-13S-2S347-0000  GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOC	THE DEPTH OF SEE WHE THE DEPTH OUT PEET HOME	No. interest 879/Time 1539/Time FS99/Time 1539-7181 85504537	nite PAZI	to on focation 4:00p.m. 3-11-12																			omatic Driller	D57#1	#11/2-44/2014 441/-44/2014 42.45.45.45.11 18.93.40 min.	101-151# Built to 8ia. 1322# 1322# 2099# 17 117°F 17 117°F 20047:	10. HP 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	spectfully, fwen TAL 3-14-2012
OPERATOR American Warrior, Inc.  LEASE Pittenger WELL NO. 3  FIELD Corsair  LOCATION 2316' FNL : 530' FEL  SEC. 34 TWP. 19s RGE 21w  COUNTY Ness STATE Kansas  CASING RECORD  ONTRACTOR Petromark Drilling, LLC. Rig #1  OMM: 3-6-ZOIZ COMPS 3-14-ZOIZ  TD 44ZZ' LOC TO None  WARLES SAVED FROM 3700' TO RTD  RELLING TIME KEPT FROM 3700' TO RTD		DEND	I'b sh Limestone Ool.Lime Chert Dolon	LS-FLEGY, HE. GEY, Mottled, @	Ls. ala Ls. Ton- Gry. Mottled, Fraxla,	LS-Ten-Lt. Gry, Fo XIn, Borren Sh. Blk, Lorb, F.ssile	LS- Ten- Gry, Subxla, DNS Sh- Gry- Ben- Gen LS-1 Fen- Lt. Goldes Forstyn,	5h-644-Brn-6en LST. Bon-Lt. Ger, Fr - Subuln. Sh-644-Brn	Ls- ofe, DNS  Ls- often DNS	Sh-Drk Gey	15-ala Wi Feir-Good van pr	Us-Ton-Lt. Gery, for Subxlm, is Barren Sud. Hoor com b.	Sh- 614-Bin Ls- 7an- Lt.G14, Subxla, DNS	Sh- Gry- Brn LS- Tan- Gry, Fn xlly Ool. WI LS- ala. DNS	Sh- Gry- Bin Ls- Offwh- Ton, Fr xln, Col. W/ Good com p, Borren	LS- Tan- Cry, Substlu, DNS Sh. Cory. Dik bry [S- Tan- 14 Co. S. L. L. DNS	Sh. Oik Gay	Sh. Ork Cay. 81k LS- Tan- Cay, S. Lx La, DNS	Ls-ala Sh-by-Bin-ben Ls-Ten-by, Subaln, DNS	5tr- 6cy- 8cn- 6cn Ls- Ten- Lt. 6cy, 55 xln	Sh. Oth Gry- bry- Ben	Ls- Ten- Lt. Gny, Subala Ls-ale	sh- 6y- Brn- 6rn sh- ale	LS-Offluh-64, Subxla, DNS LS-alc	LS-Ton-Gry, Subkh, DNS IF	Sh-Gry-Brn-Grn FS. LS-Tan-Gry, Subxh, DNS Re	Sh-ale Sest. Otz Gn Few	Dolo-40-Wht-Tenyersyng 18:00.X/n Le wil four wassy of Heavy Trip A
#PLES EXAMINED FROM 3700   0 RTD   0 R		The location for the Pittenger #3 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. One drill stem test was conclusted which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had been examined the decision was made to run S'z in.  production casing to further evaluate the Pittenser #3 well.	hydrite Salt Sandstone Shale Cal	2 3 4 5 10 15 20 30		Heebner 3798'-1521		Lansing 3844'-1567	AAAA	-^W/\		MJW-^				<b>~~~</b>	V-VV	VWWL	м W W W W W W W W W W W W W W W W W W W				ANN Pagnee	T10%-14991-7	Fort Scott 2  4324'-2847  5 Cherokee	1 41 6		4410 - 2133 6 - 4410 - 2133 5 - 1420 - 2143
ERENCE WELL FOR STRUCTURAL COMPARISON American Warrior, Inc. ittenger #7 2030 FNL & 330 FEL Sec. 34 T19s R21w		Respectfully Submitted,  Javen TAL  3-14-2012	ОЕРТН	2 S -I-I-I-I-I-I-I	in	2 2 2 2 2 3		33	~				7	24	3 8 8	7				002, 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			02 08 06	13	2 8 8	43x0 1-1-60 1-1-70	00/1/1	0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4



Prepared For: American Warrior, Inc.

PO Box 399 Garden City, KS 67846

ATTN: Jason Alm

#### Pittenger #3

#### 34-19s-21w Ness,KS

Start Date: 2012.03.13 @ 09:24:23 End Date: 2012.03.13 @ 17:59:38 Job Ticket #: 46448 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



American Warrior, Inc.

34-19s-21w Ness, KS

PO Box 399

Garden City, KS 67846

Job Ticket: 46448

Pittenger #3

DST#: 1

ATTN: Jason Alm

Test Start: 2012.03.13 @ 09:24:23

#### GENERAL INFORMATION:

Formation: Mississippi

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Initial) 0.00 ft (KB)

Time Tool Opened: 12:22:23 Time Test Ended: 17:59:38 Tester: Jason McLemore

Unit No: 54

4411.00 ft (KB) To 4420.00 ft (KB) (TVD)

Reference Elevations:

2277.00 ft (KB)

Total Depth: 4420.00 ft (KB) (TVD)

2271.00 ft (CF)

7.88 inches Hole Condition: Good Hole Diameter:

Inside

KB to GR/CF: 6.00 ft

Serial #: 8366

Interval:

Press@RunDepth: 151.61 psig @ 4416.00 ft (KB)

Capacity: Last Calib.: 8000.00 psig

Start Date: 2012.03.13 End Date: 2012.03.13

Time On Btm:

2012.03.13 2012.03.13 @ 12:22:08

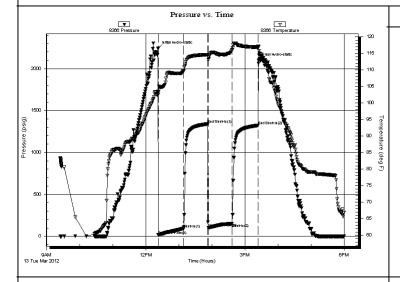
Start Time: 09:24:25 End Time: 17:59:38

Time Off Btm:

2012.03.13 @ 15:24:23

TEST COMMENT: IFP-Good Blow, BOB in 40 Min.

ISI-Blow back Built to 1/2" FFP-Good Blow . Built to 8" FFP-Blow back Built to 1/2"



#### PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2245.19	103.53	Initial Hydro-static
1	16.17	102.63	Open To Flow (1)
47	93.59	109.74	Shut-In(1)
90	1340.18	114.60	End Shut-In(1)
92	101.29	113.06	Open To Flow (2)
135	151.61	116.00	Shut-In(2)
182	1322.82	116.87	End Shut-In(2)
183	2099.40	117.06	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
70.00	HOCWM-60%O-10%W-30%M	0.34
320.00	Free Oil	1.82

#### Gas Rates

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

Trilobite Testing, Inc. Ref. No: 46448 Printed: 2012.03.14 @ 16:11:37



American Warrior, Inc.

34-19s-21w Ness, KS

Pittenger #3

PO Box 399

Garden City, KS 67846 Job Ticket: 46448

ATTN: Jason Alm Test Start: 2012.03.13 @ 09:24:23

**GENERAL INFORMATION:** 

Formation: Mississippi

Deviated: Whipstock: 0.00 ft (KB) Test Type: Conventional Bottom Hole (Initial) No

Time Tool Opened: 12:22:23 Time Test Ended: 17:59:38

Unit No:

DST#: 1

Tester: Jason McLemore

54

4411.00 ft (KB) To 4420.00 ft (KB) (TVD)

Reference Elevations:

2277.00 ft (KB)

Total Depth: 4420.00 ft (KB) (TVD) 2271.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 6.00 ft

Serial #: 8289

Interval:

Outside

Press@RunDepth:

psig @

4416.00 ft (KB)

Capacity: 2012.03.13 Last Calib.:

8000.00 psig 2012.03.13

Start Date: 2012.03.13 Start Time:

End Date:

17:59:38

Time On Btm:

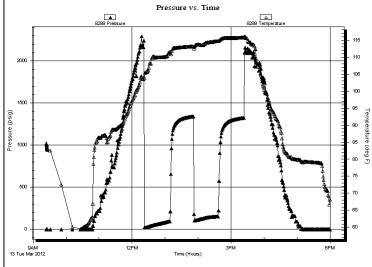
09:24:10

End Time:

Time Off Btm:

TEST COMMENT: IFP-Good Blow, BOB in 40 Min.

ISI-Blow back Built to 1/2" FFP-Good Blow . Built to 8" FFP-Blow back Built to 1/2"



#### PRESSURE SUMMARY

•	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
	(10111.)	(psig)	(deg i)	
1				
,				

#### Recovery

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#### Gas Rates

Choke	(inches)   Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc. Ref. No: 46448 Printed: 2012.03.14 @ 16:11:38



**TOOL DIAGRAM** 

American Warrior, Inc.

Garden City, KS 67846

34-19s-21w Ness, KS

PO Box 399

Pittenger #3

Job Ticket: 46448

DST#: 1

ATTN: Jason Alm

Test Start: 2012.03.13 @ 09:24:23

**Tool Information** 

Drill Collar:

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 4046.00 ft Diameter: Length:

0.00 ft Diameter: 363.00 ft Diameter: 3.80 inches Volume: 56.75 bbl 2.70 inches Volume: 2.25 inches Volume: Total Volume:

0.00 bbl 1.79 bbl 58.54 bbl Tool Weight: 2000.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 80000.00 lb

Tool Chased 0.00 ft String Weight: Initial 75000.00 lb

Final 76000.00 lb

Drill Pipe Above KB: 26.00 ft Depth to Top Packer: 4411.00 ft

Depth to Bottom Packer: ft Interval between Packers: 9.00 ft Tool Length: 37.00 ft

Number of Packers:

2 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4384.00		
Shut In Tool	5.00			4389.00		
Hydraulic tool	5.00			4394.00		
Jars	5.00			4399.00		
Safety Joint	2.00			4401.00		
Packer	5.00			4406.00	28.00	Bottom Of Top Packer
Packer	5.00			4411.00		
Stubb	1.00			4412.00		
Perforations	4.00			4416.00		
Recorder	0.00	8366	Inside	4416.00		
Recorder	0.00	8289	Outside	4416.00		
Perforations	1.00			4417.00		
Bullnose	3.00			4420.00	9.00	Bottom Packers & Anchor

**Total Tool Length:** 37.00

Trilobite Testing, Inc Ref. No: 46448 Printed: 2012.03.14 @ 16:11:38



**FLUID SUMMARY** 

ppm

DST#: 1

American Warrior, Inc. 34-19s-21w Ness,KS

PO Box 399

Pittenger #3

Garden City, KS 67846

ATTN: Jason Alm

Job Ticket: 46448

Water Salinity:

Test Start: 2012.03.13 @ 09:24:23

**Mud and Cushion Information** 

Mud Type: Gel Chem Cushion Type: Oil API: 41 deg API

Mud Weight:9.00 lb/galCushion Length:ftViscosity:65.00 sec/qtCushion Volume:bbl

Water Loss: 7.59 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 5500.00 ppm Filter Cake: inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
70.00	HOCWM-60%O-10%W-30%M	0.344
320.00	Free Oil	1.820

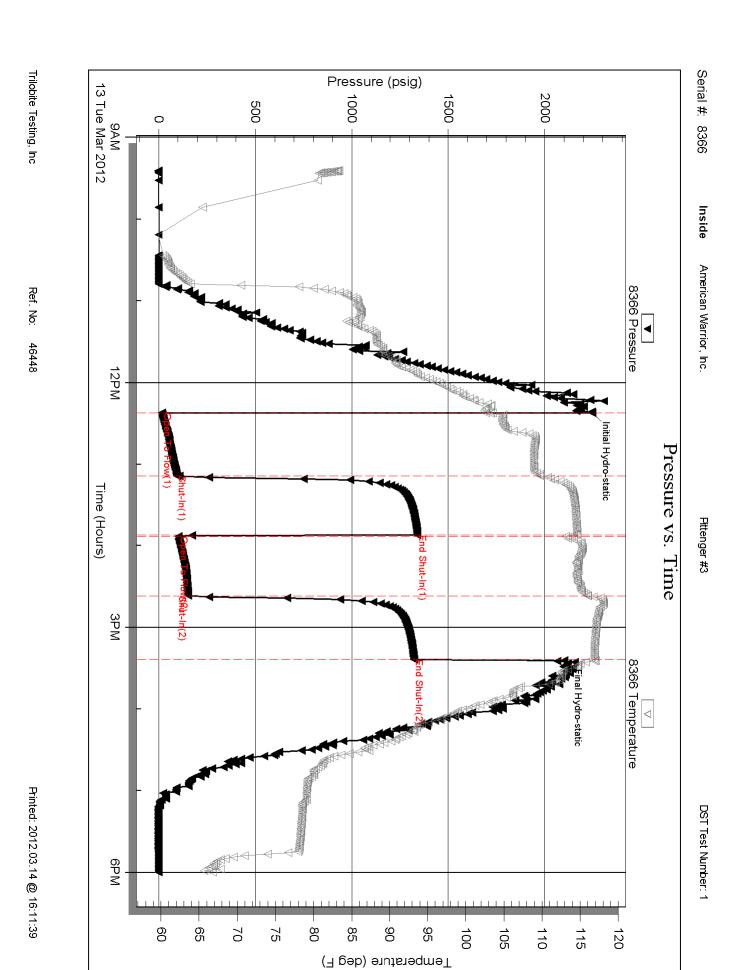
Total Length: 390.00 ft Total Volume: 2.164 bbl

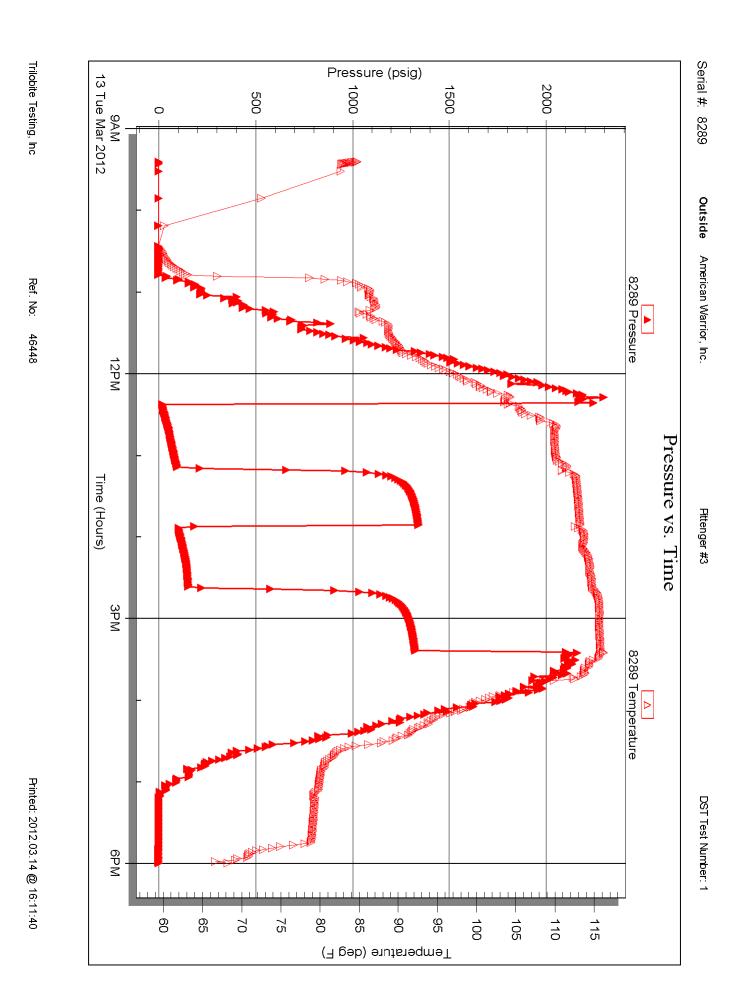
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 46448 Printed: 2012.03.14 @ 16:11:39







# RILOBITE | ESTING INC. P.O. Box 1733 • Hays, Kansas 67601 MAR 1 4 2012

#### **Test Ticket**

NO.

46448

4/10	1.0. Box 1700 Tia	ys, ransas or our wi	All I I I LOIL			
Well Name & No.	Pittenger #3	BY: _	Test No.	-1	Date 3 - 13	3-12
Company Ame	erican Warrior,					
Address PO 13	Box 399, Garden	City KS	67846			
	ason Alm		Rig Pet	romanic	th (	
	34 Twp. 195	Rge. 2 ( w	Co. Vess		State	KS
Interval Tested 47	111-4420	Zone Tested	Aississipp	(		
					Mud Wt. 9,3	
Anchor Length Top Packer Depth	4406	Drill Collars Run			Vis <u>65</u>	
Bottom Packer Depth	4411	Wt. Pipe Run_			WL 7.6	
Total Depth 44:		Chlorides 55	o o	n System	LCM_	
Blow Description	FP- Good Blow,	BOB in 40 1	nin.			
Is	I- Blowback Bui	It to 1/2"				
FFP	- Good Blow, Bui	It to 8"	10			
	Blowback Built					
	Feet of Free Oil		%gas	%oil	%water	%mud
Rec70	Feet of HOCWM		%gas (	60 %oil	(O %water	30 %mud
Rec	Feet of		%gas	%oil	%water	%mud
Rec	Feet of		%gas	%oil	%water	%mud
Rec	A 1804 2400 4 A 1804		%gas	%oil	%water	. %mud
Rec Total 390	Э ВНТ	Gravity	API RW(	@°F	Chlorides	ppm
	2245				ocation 9:05	
(B) First Initial Flow_	16	1 Jars 250		T-Starte	ed 9:22	
(C) First Final Flow _	94	🔼 Safety Joint	5		12:21	
(D) Initial Shut-In	1340	☐ Circ Sub			15/21	
(E) Second Initial Flov	101	☐ Hourly Standby	9		17:58	
(F) Second Final Flow	, 152	Mileage //D	t 154	Comme	ents	
(G) Final Shut-In	1323			<u>-</u>		
(H) Final Hydrostatic_	2099	☐ Straddle		-	ned Shale Packer	
		☐ Shale Packer			ned Packer	
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nitial Shut-In 45	N 10 20	☐ Extra Recorder			ra Copies tal Ø	
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# ALLIEBCEMENTING OD., LLC. 042445

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# CEMENTING LOG

STAGE NO.

Company   Acade   Call   Cal	Date 3 - 7-	12		a. / h.	l land.	_	CEMENT DATA:
Location   List   Location   List							Spacer Type: - (+54 m a 7 a/m
COMMAN REPRESENTATIVE						<u> </u>	Amt. 5 2017 Sks Yield ft <sup>3</sup> /sk Density 22, 79 PPC
Location   Hasp   Max   Let   Max   Type							
CASING DATA:  Conductor   PTA   Squeeze   Misc   Surface   Intermediate   Production   Liner   This panel Time   This panel   This panel   This panel Time   This panel   This p			(1 7		3,1		
CASHIND DATA   Conductor   PTA   Squeeze   Misc   Anni. Prop.   Clear   PTA   Squeeze   Misc   Tall. Prop.   Trop.   Sas.   Yeak.   Misc.			12 133	<u>675 —</u> F	ield		LEAD: Pump Time hrs. Type
Surface   Intermediate   Production   Line   Tall Pump Time 7 th 16 to 1 t					<del></del>	<del></del> .	Excess
Size   1/2   Typo   Mt ac   Weight   21 ac   Color   59 cl   1/3 cl   Exona   Exona   1/3 cl   Exona	CASING DATA		<del>-</del> .	_	Squeeze 🔲 M		
Size   1/2   Typo   Mt ac   Weight   21 ac   Color   59 cl   1/3 cl   Exona   Exona   1/3 cl   Exona	·	Surface	Interme	diate 🔲 🛮 Pr	oduction 🔲 Lis	ner 🔲	TAIL: Pump Time 7 h. c/c-> + c
Am. 150 Sto Yold 11-34 11-14 Density 152 PRO WATER Land 224 12-15 To galar/sk Total Bible  Dell Piper Step L1/22 Weight 16. 6 Collans X 14g/e  Dell Piper Step L1/23 Weight 16. 6 Collans X 14g/e  Dell Piper Step L1/24 Weight 16. 6 Collans X 14g/e  Dell Piper Step L1/25 To n. PR to n.  th. Type Depth  De	Size 40 7/4		We	ight	Collar 6	cet .	77. ge1 Excess
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Open Moles Size 12/44 TD		-					Bulk Equip. W82-180 Joseph H / Beyn Fo
Open Moles Size 12/44 TD	<del></del>	···					
Open Moles Size 12/44 TD							
CAPACITY FACTORS:  Casing: Blob/Lin. ft. 10637 Lin. ft./Blob. 15.70 Float Type Doubth  Compa Holate: Blob/Lin. ft. 11159 Lin. ft./Blob. 15.70 Float Type  Blob/Lin. ft. 11159 Lin. ft./Blob. 17.212  Annulus: Blob/Lin. ft. 2112 Lin. ft./Blob. 17.60 Special Equip.  Bigliorations: From ft. to ft. Amt. Mud Type METILE  TIME PRESSURES PSI FLUID PUMPED DATA  AM/PM DRILLEPSE ANNULUS TOTAL Pumped Her RATE  TIME PRESSURES PSI FLUID PUMPED DATA  AM/PM DRILLEPSE ANNULUS TOTAL Pumped Her RATE  AM/PM CASING  COMPANY REPRESENTATIVE  COMPANY REP	Drill Pipe: Size	11/2	Weight	16.6	Collars X ho	<del>/=</del>	
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Drill Pipe.  Bobly Lin. ft.  J 735  Lin. ft./Bobl.  J 736  Stope Collars  Special Equip.  Spec	• •	-		•	J		
APPROBLE BUBBLION FL. 1. 3735 Un. ft./Bbl. 13.60 Special Equip.  Bubblion ft. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.				•	***	<u> </u>	
Annale: Bobs/Lin. ft	Drill Pipe:			named to the state of the state	12 /		Stage Collars
PRICE PRESURES PSI FLUID PUMPED DATA  AM/PM DRILL PIPE ANNULUS FLUID PUMPED DATA  AM/PM DRILL PIPE ANNULUS FLUID PUMPED DATA  FLUID PUMPED DATA  REMARKS  RE	Annulus:	_ Bbls/Lin. ft	, 0 , 15	Lin. ft./E	вы. <u>75. 6</u>		Special Equip.
COMPANY REPRESENTATIVE  TIME PRESSURES PSI FLUID PUMPED DATA  AM/PM DRILL PIPE ANNULUS TOTAL Pumped Per Bash Min.  CASHNO DRILL PIPE ANNULUS TOTAL Pumped Per Bash Min.  DN Lacarian - Rig up Hand Suffery Notering  Ren 45/14 (asing with Righted)  Cital as Casing with Righted  125,25 23,25 Min 150/16 (104 wath a bread)  125,25 23,25 Min 150/16 (104 wath a bread)  111-47 13.24 Displace 13/14 4 bls (105) natel		Bbls/Lin. ft	<del>i.,</del>	Lin. ft./E	3bl		
COMPANY REPRESENTATIVE  TIME PRESSURES PSI FLUID PUMPED DATA  AM/PM DRILL PIPE ANNULUS TOTAL Pumped Per Bash Min.  CASHNO DRILL PIPE ANNULUS TOTAL Pumped Per Bash Min.  DN Lacarian - Rig up Hand Suffery Notering  Ren 45/14 (asing with Righted)  Cital as Casing with Righted  125,25 23,25 Min 150/16 (104 wath a bread)  125,25 23,25 Min 150/16 (104 wath a bread)  111-47 13.24 Displace 13/14 4 bls (105) natel	Perforations:	From	ft. to	o	ft. Amt		Mud Type Weight 2.1 PPG
TIME PRESSURES PSI FLUID PUMPED DATA  AM/PM DRILL PIPE ANNULUS TOTAL Pumped Per RATE Blobs Min.  ON Lacerina - Rig up  Hud Gufery Meering  Rem G Sig Cosing  (*/(ula) e lasing uit Rigmed  Park up (leans pump  Light 13.24 Disphere 13 /M 4 bls (1854 mare)  Cencal Did ((ula) e  Plug Para - bish pare)  Right Pown - bish pare							
AM/PM DRILL PIPE ANNULUS TOTAL Pumped Per FLUID Time Period Blos Min.  ON Lacerium - Rig MP Hend Sufery Mer, and  Circulare taking mirt Rigard  Park My Star Cosing  Circulare taking mirt Rigard  Park My Cenani Pour P  S Am 565/4 (resh mark a beard  25,25 23,25 Min 150 5/5 (1154 A 3)-cc 21-yell  Lisphice 13/4 bbls (resh mark)  Cenant Did (riculare)  Plug Run - 6:30 Min  Rig Down -	COMPANY REP	RESENTATIVE					CEMENTER Dussin C.
AM/PM DELL PRE ANNULUS PULL PUMPED PER PRINCE BUSINIS.  ON becaring - Brig up Had sufery Meeting.  Run 45/4 (asing mit Righted)  C'(lulare lasing mit Righted)  Fish up (long) pump  S Run 565/1 (leich matt a beard)  25,25,25,23.25  Miy 150 5K5 (lass A) 37/cc 27/gel  HILLIAN ISO PLAN	TIME	PRESSU	IRES PSI	FLU	JID PUMPED	DATA	
ON becaring Big up  Hud sufery Mering  Run 45/4 (asing)  ('/(ulase lasing mirk Rigmed)  Park up cleans pump  Shin 565/1 (leich matt a heard)  25,25 23,25  Miy 150 9K3 (laig A 3tice 2tiget)  11/4/1 13,24  Displace 13/4 46/5 (less name)  Cencar Did willare  Plug Run = 6:30,41  Rig Down =	AM/PM		ANNULUS		Pumped Per		REMARKS
# Had sufery Mering    Run 4514 (asing)   Circular lasing with Righted   Park up lengt pump   Ship 566/1 (esh wark a head   25,25 23.25   Min 150 5K3 (his A 3tic 27.90)   William 13.24   Displace 13/4 bbly less mark   1947 in   Cental Did liven fore   Plug Runa - 6:25 th   Rig Down -		CASING	<del> </del>	FLOID	Time Feriod	DDIS IVIII.	
Run 45/4 (asing mith Rigged)  (i/(u/a) & Justing mith Rigged)  First up (lenon pump)  Ship 56/1 (jeth unth a head)  25,25 23,25 Min 150 5K3 (high 37cc 27gel)  411-47 13.24 Displace 13/4 46/5 (jeth unth)  Ship Tin  (smeat Did (i/(u/are)  Plug Run — birgh  Rig Down—		. <b></b>	<u> </u>	<b></b>		<u> </u>	
(:/(u/ase tasing n:75 Rig med		<u> </u>	<u> </u>				Had sufery Meeting
(:/(u/ase tasing n:75 Rig med						<u> </u>	<u></u>
25,25 23.25   M.y 150 5K5 (456 A 34-cc 24-ge)							Run 4514 Cosino
25,25 23.25   M.y 150 5K5 (456 A 34-cc 24-ge)				1			
25,25 23.25   M.y 150 5K5 (456 A 34-cc 24-ge)							Cillulate taking with Bis med
25,25 23.25   M.y 150 5K5 (456 A 34-cc 24-ge)		<u> </u>		1		1	Hark 12 1840 - Dun A
Plug Pour - 6:30 pm  Rig Down -	<del></del>	<del> </del>	1			<u> </u>	TOR WY CERCE / MANY
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0116				HOUT DELAY?	OUR SERVICE WAS PERFORMED WITHOUT DELAY?	SWIFT SERVICES, INC.	R'S AGENT PRIOR TO	STOMER OR CUSTOME	JUST BE SIGNED BY CUSTOMER OR CUSTON
12				SAND SP	WE UNDERSTOOD A		but are not limited to, PAYMENT, RELEASE, INDEMNITY, and	to, PAYMENT, R	but are not limited
8 11.5/1	PAGE IOTAL			PERFORMED YOWN?	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	KEMIT TAYMENT TO:	the terms and conditions on the reverse side hereof which include,	litions on the rever	the terms and conc
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ER	E DANNER	DATE	₹	大AZINE	入 A A A A A A A A A A A A A A A A A A A	A LIENPER HS COUNTY MARKET	WELL/PROJECT NO.   LEASE		SERVICE LOCATIONS
ر مر	1							Services, Inc	Sem
OF.	PAGE					XODE .	CITY, STATE, ZIP CODE		

SWIFT OPERATOR

ISTOMER ACCEPTANCE OF MATERIALS AND SERVICES. The

CUSTOMER DID NOT WISH TO RESPOND

Thank You!

APPROVAL

JOB LOG

SWIFT Services, Inc.

DATE LI MARIA PAGE NO.

USTOMER	WLARDIS	ARRIOR	WELL NO.		LEASE PITT	ENGER	2 #3 JOB TYPE S' & LUNGSTRING TICKET NO. 22071
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSURE TUBING	E (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0200						ON LOCATION
	4110	· · · · · · · · · · · · · · · · · · ·					STERT PIRE 52-15.5"
<del> </del>							RIDE 4422 SET @4421
							SHOE 31. 42.24
			<del> </del>				CENTRALIZERS 1,2,3470
			<del> </del>				POKT COLLAR TOP OF STE 7181488
· ·			-				POKI COUAR 107 01 51 71 61488
	m135						Total Alexander
·	0635						DROP BALL CIRCULATE
	57 <i>0</i> 6	18	12			300	Pump SOOGAL MUD FLUSH
		lo	20	V		300	Pump 20Bbl KLIL FLUSH
	5711		7				PLUGRH (305x)
	0714	L.J	35	>	* :		MIX145 SX EAZ
	0727	:					WASH OUT PUMPING LINES.
* •							
`	0729	6	*	7			START DISPLACEMENT
	-7//7		1111			1,500	D D D D D D D D D D D D D D D D D D D
	0747		1042	7		1500	PLUC DOWN PSIUP LATON PRUGIN
	07/16						DELEVE DEL - DOLL
	0749						RELEASE PSI-Day
	0751						WASHTRUCK
	10/01						L DASH JK CICK
	0820						JOB COMPLETE.
· ·							THAIRS #110
							JASON, JEFF ISAAC TJ



# TICKET CONTINUATION

No. 22071

SSS	2002	325													290	SPR	234	283	276	Seculos	
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LOW MERCHINA	SERVICE CHARGE	STANDARD (FARIT FAR													D-AIR	HALAD-322	CALSTAL	<b>S4</b> T	FLOCKIE	CUSTOMERICAN WARRIOR	
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CHARGE 10:	AMERICA	2 2 22	アラア		
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Z 22133 TICKET

.	WELL/PROJECT NO.	LEASE	COUNTY/PAGIGH-	STATE	CITY	DATE	20
ころにいては、ファ	•	ナイイアンプロサイ	<u> </u>	줐	大学の元人	うなるから	
				Ĭ,	THE LIVE IN.	10/11/12	
2.	TICKET TYPE   CONTRACTOR	•	RIG NAME/NO.	SHIPPED	SHIPPED DELIVERED TO	ORDER NO.	
	HSKES HO OIFFID YEAR	IFFID JERU.		¥			
•	WELL TYPE	WELL CATEGORY JC	V C SSOdand Bor		WELL PERMIT NO.	WELL LOCATION	
	D/L	DEVELOPMENT	IT CENTENT FORT COLLAR	•		一方の公とないる	200
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

					S AND	WE UNDERSTOOD AND	but are not limited to, <b>FATMENT, KELEASE, INDEMNITY</b> , and	but are not ilmited
1342 1	PAGE TOTAL				PERFORMED COWN?	CEMIL PAYMENT IO: OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	the terms and conditions on the reverse side hereof which include,	the terms and conc
9		AGREE	DECIDED	AGREE	VEY	SURVEY	LEGAL TERMS: Customer hereby acknowledges and agrees to	LEGAL TERMS:
•								
_								
250,50	2503	3	17.3 4	K W	173841/bs/217.3 4m	MINIMUM DRAWAGE		582
35099	2 Pe			\$X	175/5	SERVICE CHARGE CENTENT		28/
1897 50	55/97/			S <sub>X</sub>	1155	Swift Much Drusty		33//
					-			
357)las	357)2			800	11	PORT MOVIAR OPENING TOOL		105
35/5	35/2			392	16	D-AIR		290
(O) 00	<u>ئ</u> ر ھ	- 2	_	bs	3011	FLOCELE		276
1250/9	1250 ps			8	150	Pump CHARGE		\$76D
(A)	60			איר	25 m	MILEAGE \$ 110		575
AMOUNT	PRICE	≨	QTY.	Z.	QTY. U	DESCRIPTION	- - - - -	EFERENCE
	TIMIT	4					SECONDARY REFERENCE/ ACCOUNTING	PRICE

DATE SIGNED 28 MAR 12 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS LIMITED WARRANTY provisions. Scott TIME SIGNED 15-45 X MAN

SWIFT SERVICES, INC.

NESS CITY, KS 67560 785-798-2300 P.O. BOX 466

MET YOUR NEEDS?
OUR SERVICE WAS
PERFORMED WITHOUT DELAY?
WE OPERATED THE EQUIPMENT
AND PERFORMED JOB
CALCULATIONS ARE YOU SATISFIED WITH OUR SERVICE? CUSTOMER DID NOT WISH TO RESPOND O S 7 0 55 6.3% TOTAL 80,0644 147 83

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The

SWIFT OPERATOR

Thank You!

JOB	LOG

SWIFT Services, Inc.



TIME 345	RATE (BPM)	WELL NO.  VOLUME (BBL) (GAL)	PUM T	PS C	PRESSURI TUBING		DESCRIPTION OF OPERATION AND MATERIALS
345	RATE (BPM)	VOLUME (BBL) (GAL)					
`							
`		1	I '				ONLOCATION
14.0							
14.0							PORTCULAR @ 11/88
110		1					
418				7		1000	TEST-HELD
						7000	
120	4			7		300	OPEN POPT COLLAR TAKE INS PATE
				7		٥٠٥	CHANGE TOO BALE
148	4	64	7		577		M1X1155×SMD
,,,		1/2					
							DISPLACE CEMENT CIRCULATE 2DSX TO PIT
							THE GUST INTI
504	<del></del>				1000		CLUSE PORT COLLAR-TEST-HELD
70 7	· · · · · · · · · · · · · · · · · · ·				1000		CLOX TOKI ( BUINK JEST MELL)
737							Run 4 JTS.
							7,640 7375.
-12	24	1/0				200	REVERSE AMENT OUT OF TUBING
7/3		70		V		مد	REVERSE CEMENT DUT OF TURNE
-30	<del> </del>						WASHTRUCK
, ,							WHISH TRUCK
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216-							TARRE
43							DE ComplETE
					-		die 115
							THAUKS # 110
							JASON JEFF ROB
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