

Confidentiality Requested:

Yes No

# KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1269966

Form ACO-1
August 2013
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: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
□ Oil □ WSW □ SHOW   □ Gas □ D&A □ ENHR □ SIGW   □ OG □ GSW □ Temp. Abd.   □ CM (Coal Bed Methane) □ Cathodic □ Other (Core, Expl., etc.):   □ If Workover/Re-entry: Old Well Info as follows:   Operator:  Well Name:	Producing Formation:  Elevation: Ground: Kelly Bushing: Feet  Total Vertical Depth: Plug Back Total Depth: Feet  Multiple Stage Cementing Collar Used? Yes No  If yes, show depth set: Feet  If Alternate II completion, cement circulated from: sx cmt.
Original Comp. Date: Original Total Depth:  Deepening Re-perf. Conv. to ENHR Conv. to SWD  Plug Back Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
□ Commingled         Permit #:	Chloride content: ppm Fluid volume: bbls  Dewatering method used:  Location of fluid disposal if hauled offsite:
GSW Permit #:	Cuerter See Two S R Total West
Spud Date or Date Reached TD Completion Date or Recompletion Date	QuarterSec.         TwpS. 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
Geologist Report Received
UIC Distribution
ALT I III Approved by: Date:

Page Two



Operator Name:				_ Lease I	Name: _			Well #:	
Sec Twp	S. R	East	West	County	:				
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in press o surface test, along v	ures, whe	ther shut-in pre chart(s). Attach	ssure reac extra shee	hed stati	c level, hydrosta space is neede	tic pressures, b d.	ottom hole temp	erature, fluid recov
Final Radioactivity Lo files must be submitte						ogs must be ema	alled to kcc-well-	logs@kcc.ks.go	v. Digital electronic
Drill Stem Tests Taker (Attach Additional		Y	es No			J	on (Top), Depth		Sample
Samples Sent to Geo	logical Survey	Y	es No		Nam	е		Тор	Datum
Cores Taken Electric Log Run			es  No						
List All E. Logs Run:									
				RECORD	Ne				
	0: 11.1					ermediate, product		" 0 1	T 15
Purpose of String	Size Hole Drilled		ze Casing t (In O.D.)	Weig Lbs.		Setting Depth	Type of Cement	# Sacks Used	Type and Percer Additives
			ADDITIONAL	CEMENTI	NG / SQL	JEEZE RECORD			
Purpose:	Depth Top Bottom	Туре	of Cement	# Sacks	Used		Type and	Percent Additives	
Perforate Protect Casing	Top Dottern								
Plug Back TD Plug Off Zone									
1 lug 0 li 20 lio									
Did you perform a hydrau	ulic fracturing treatment	on this well	?			Yes	No (If No, s	skip questions 2 a	nd 3)
Does the volume of the t			-		-			skip question 3)	
Was the hydraulic fractur	ing treatment informatio	n submitted	to the chemical of	disclosure re	gistry?	Yes	No (If No, i	ill out Page Three	of the ACO-1)
Shots Per Foot			RD - Bridge Plug Each Interval Perl				cture, Shot, Ceme	nt Squeeze Recor	rd Depth
						(* *			200
TUBING RECORD:	Size:	Set At:		Packer A	t·	Liner Run:			
		0017111				[	Yes N	o	
Date of First, Resumed	Production, SWD or EN	HR.	Producing Meth	nod:	g 🗌	Gas Lift (	Other (Explain)		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wat	er B	bls.	Gas-Oil Ratio	Gravity
DIODOCITI	01.05.040			4ETUOD 05	. 00145/	TION:		DDOD! ICT!	
DISPOSITION Solo	ON OF GAS:  Used on Lease		N Open Hole	∥ETHOD OF Perf.			mmingled	PRODUCTION	ON INTERVAL:
	bmit ACO-18.)		Other (Specify)		(Submit		mit ACO-4)		

Form	ACO1 - Well Completion
Operator	Outlaw Well Service LLC
Well Name	Lowry 5-13
Doc ID	1269966

# Tops

Name	Тор	Datum
ANHYDRITE	1461	+548
TOPEKA	2961	-952
HEEBNER SHALE	3165	-1156
TORONTO	3186	-1177
LKC	3202	-1193
ВКС	3420	-1411
ARBUCKLE	3461	-1452
RTD	3532	-1523

**OPERATOR** 

Company: OUTLAW WELL SERVICE LLC

Address: 1408 WEST 42ND HAYS, KANSAS 67601

Contact Geologist: PRESTON WOLF
Contact Phone Nbr: 785-650-2399
Well Name: LOWRY # 5-13

Location: 330 FSL 880 FWL API: 15-163-24308-00-00

Pool: Field: BRAY

State: KANSAS Country: USA

Scale 1:240 Imperial

Well Name: LOWRY # 5-13 Surface Location: 330 FSL 880 FWL

**Bottom Location:** 

API: 15-163-24308-00-00

License Number: 34272

Spud Date: 10/21/2015 Time: 2:00 PM

Region: ROOKS COUNTY

Drilling Completed: 10/26/2015 Time: 11:40 PM

Surface Coordinates: 330 FSL & 880 FWL

**Bottom Hole Coordinates:** 

Ground Elevation: 2001.00ft K.B. Elevation: 2009.00ft

Logged Interval: 2850.00ft To: 3530.00ft

Total Depth: 3530.00ft Formation: ARBUCKLE

Drilling Fluid Type: FRESH WATER / CHEMICAL GEL

#### SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.471318
Latitude: 39.337021
N/S Co-ord: 330 FSL
E/W Co-ord: 880 FWL

# **LOGGED BY**



Company: SOLUTIONS CONSULTING, INC.

Address: 108 WEST 35TH

HAYS, KANSAS 67601

Phone Nbr: 785-650-4540 / 785-639-1337

Logged By: GEOLOGIST Name: STEVE REED

CONTRACTOR

Contractor: DISCOVERY DRILLING, INC

Rig #: 4

Rig Type: MUD ROTARY

 Spud Date:
 10/21/2015
 Time:
 2:00 PM

 TD Date:
 10/26/2015
 Time:
 11:40 PM

 Rig Release:
 10/27/2015
 Time:
 8:00 PM

**ELEVATIONS** 

K.B. Elevation: 2009.00ft Ground Elevation: 2001.00ft

K.B. to Ground: 8.00ft

#### **NOTES**

AREA, THE LOWRY #5-13 WAS DEEMED NOT COMMERCIALLY PRODUCTIVE AT THIS TIME. THE DECISION WAS MADE TO PLUG AND ABANDON.

OPEN HOLE LOGGING BY PIONEER ENERGY SERVICES: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG, MICRORESISTIVITY LOG

DRILL STEM TESTING BY TRILOBITE TESTING INC: FOUR (4) CONVENTIONAL AND ONE (1) STRADDLE TEST

RESPECTFULLY SUBMITTED BY: STEVE REED

	WELL	NAME	COMPARISON WELL	COMPARISON WELL		
	LOWRY #5-13		DON #1	CHARLIE #1		
	API: 15-1	L63-24308	API: 15-163-24301	API: 15-163-24296		
	200	9 KB	2013 KB	2012 KB		
FORMATION	SAMPLE TOPS	LOG TOPS	LOG TOPS (DATUM)	LOG TOPS (DATUM)		
ANHYDRITE TOP	1460 (+549)	1461 (+548)	+553	+557		
ТОРЕКА	2961 (-952)	2961 (-952)	-950	-953		
HEEBNER	3165 (-1156)	3165 (-1156)	-1154	-1155		
TORONTO	3185 (-1176)	3186 (-1177)	-1174	-1176		
LKC	3201 (-1192)	3202 (-1193)	-1190	-1192		
ВКС	3423 (-1414)	3420 (-1411)	-1411	-1411		
ARBUCKLE	3460 (-1451)	3461 (-1452)	-1450	-1447		
RTD	3530 (-1521)	3532 (-1523)	-1532	-1535		

#### **SUMMARY OF DAILY ACTIVITY**

10-21-15	MIRU, spud @ 2:00pm, set 8 5/8" surface pipe to 221.36 w/150 sxs 80/20 poz 2% Gel, 3%CC, survey 1/2°, plug down @ 7:00pm, WOC, drill plug @ 3:00am
10-22-15	555, drilling
10-23-15	2162, drilling, displaced @ 2878
10-24-15	3003, drilling, CFS @ 3250, short trip, CTCH, TOWB for DST #1 3228-3250, survey 1/2°, pipe strap .01' short to board, DST #1 Misrun (bridge @ 1000 feet), Recondition hole, DST #2 3228-3250
10-25-15	3250, DST #2, drilling, CFS@ 3464, DST #3 3407-3464,
10-26-15	3464, DST #4 3407-3470, drilling, TD of 3530 reached @ $11:40$ pm, CTCH, TOWB for logging, survey $1^{\circ}$ , logging
10-27-15	3530, DST #5 straddle 3252-3266, prepare for plugging, release rig @ 8:00pm



Outlaw Well Service

20-8-19, Rooks, KS

1408 West 42nd

Low ry #5-13

Hays KS 67601

Job Ticket: 64863

ATTN: Steve Reed

Test Start: 2015.10.25 @ 03:10:00

GENERAL INFORMATION:

Formation: KC "C"

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

Time Tool Opened: 04:45:30 Tester: Brett Dickinson Unit No:

Time Test Ended: 09:25:00

Interval: 3228.00 ft (KB) To 3250.00 ft (KB) (TVD) Reference Bevations:

2009.00 ft (KB) 2001.00 ft (CF)

DST#:2

Total Depth: 3250.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8934 Outside

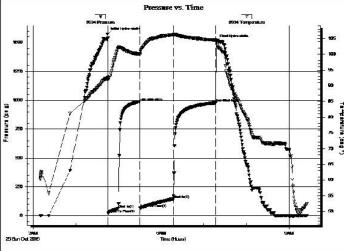
3229.00 ft (KB) Press@RunDepth: 145.86 psig @ Capacity: 8000.00 psig

Start Date: 2015.10.25 End Date: 2015.10.25 Last Calib.: 2015.10.25 Start Time: 03:10:05 End Time: Time On Btm: 09:24:59 2015.10.25 @ 04:44:45

> Time Off Btm: 2015.10.25 @ 07:18:00

TEST COMMENT: IF-BOB in 12min

ISI-1/8in blow FF-BOB in 13min FSI-1/4in blow



	PI	RESSUE	RE SUMMARY	
Time	Pressure	Temp	Annotation	
(Min.)	(psig)	(deg F)		
0	1571.44	92.47	Initial Hydro-static	
1	21.05	91.96	Open To Flow (1)	
15	63.21	101.92	Shut-In(1)	
45	988.66	100.03	End Shut-In(1)	
46	67.24	100.13	Open To Flow (2)	
93	145.86	106.21	Shut-In(2)	
153	979.27	104.53	End Shut-In(2)	
154	1507.65	104.34	Final Hydro-static	
			545	

#### Recovery

Length (ft)	Description	Volume (bbl)
180.00	MCW 90%W 10%M	2.25
60.00	GWOCM 5%G 10%O 10%W 75%M	0.84
50.00	GO 15%G 85%O	0.70
0.00	120ft GIP	0.00

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

\* Recovery from multiple tests Ref. No: 64863 Trilobite Testing, Inc Printed: 2015.10.25 @ 22:46:47



Outlaw Well Service

20-8-19, Rooks, KS

1408 West 42nd Hays KS 67601

Low ry #5-13 Job Ticket: 64864

**DST#: 3** 

ATTN: Steve Reed

Test Start: 2015.10.26 @ 01:45:00

#### GENERAL INFORMATION:

Formation: Arb

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

Time Tool Opened: 03:52:00

Brett Dickinson Tester:

Time Test Ended: 08:21:30

Unit No:

Capacity:

2009.00 ft (KB)

Interval: 3407.00 ft (KB) To 3464.00 ft (KB) (TVD) Reference Bevations:

2001.00 ft (CF)

Total Depth: 3464.00 ft (KB) (TVD) Hole Diameter:

7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8934

Press@RunDepth:

Outside 27.23 psig @

3408.00 ft (KB)

8000.00 psig

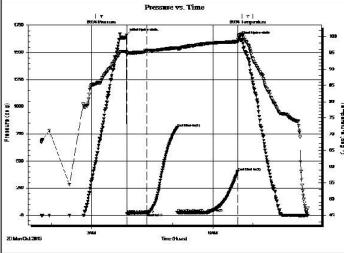
Start Date: Start Time: 2015.10.26 01:45:05

End Date: End Time: 2015.10.26 08:21:29 Last Calib .: 2015.10.26 Time On Btm: 2015.10.26 @ 03:51:30

Time Off Btm: 2015.10.26 @ 06:38:45

TEST COMMENT: IF-1in blow

ISI-No bloe FF-1/4in blow FSI-No blow



200		PF	RESSUR	RE SUMMARY
Τ	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	Automotive on end of the inch of the control of the
1	0	1661.42	95.42	Initial Hydro-static
	1	16.28	94.46	Open To Flow (1)
l	31	21.70	95.88	Shut-In(1)
l	76	804.74	96.59	End Shut-In(1)
l	76	25.97	96.34	Open To Flow (2)
l	120	27.23	97.95	Shut-In(2)
l	166	403.26	98.49	End Shut-In(2)
l	168	1632.21	100.48	Final Hydro-static
l				2003
l				

#### Recovery

Length (ft)	Description	Volume (bbl)
1.00	Oil	0.00
14.00	V SOCM 5%O 95%M	0.07
		1

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

Trilobite Testing, Inc Ref. No: 64864 Printed: 2015.10.26 @ 08:56:38



Outlaw Well Service

20-8-19, Rooks, KS

1408 West 42nd

Low ry #5-13

Hays KS 67601

Job Ticket: 64865 DST#: 4

ATTN: Steve Reed Test Start: 2015.10.26 @ 13:15:05

#### GENERAL INFORMATION:

Formation: Arb

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

Time Tool Opened: 15:21:00 Tester: Brett Dickinson

Time Test Ended: 19:04:59 Unit No:

3407.00 ft (KB) To 3470.00 ft (KB) (TVD) Interval:

Reference Bevations: 2009.00 ft (KB)

Total Depth: 3470.00 ft (KB) (TVD) 2001.00 ft (CF) KB to GR/CF: 8.00 ft

Hole Diameter: 7.88 inches Hole Condition: Fair

Serial #: 8934 Outside

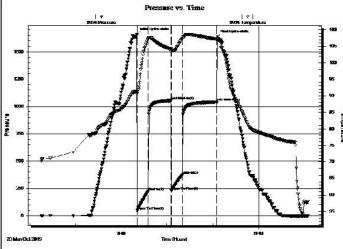
Press@RunDepth: 374.11 psig @ 3408.00 ft (KB) Capacity: 8000.00 psig

2015.10.26 Start Date: 2015.10.26 End Date: 2015.10.26 Last Calib .: Start Time: 13:15:05 End Time: 19:04:59 Time On Btm: 2015.10.26 @ 15:20:30

Time Off Btm: 2015.10.26 @ 17:06:00

TEST COMMENT: IF-BOB in 3min

ISI-No blow FF-BOB in 3min FSI-No blow



	PRESSURE SUMMARY			
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	A Addition of the World Production and Control
	0	1658.69	91.40	Initial Hydro-static
	1	44.78	90.78	Open To Flow (1)
	15	221.97	107.26	Shut-In(1)
	45	1053.86	104.19	End Shut-In(1)
1	46	229.01	103.91	Open To Flow (2)
mparatur	60	374.11	107.42	Shut-In(2)
2	105	1041.02	107.21	End Shut-In(2)
	106	1635.49	107.37	Final Hydro-static

#### Recovery

Description	Volume (bbl)
MCW 70%W 30%M	6.46
OS WCM 5%W 95%M	3.37
	MCW 70%W 30%M

Gas	Rates	

O-- D-t--

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

Trilobite Testing, Inc Ref. No: 64865 Printed: 2015.10.27 @ 08:00:26



Outlaw Well Service

20-8-19, Rooks, KS

1408 West 42nd Hays KS 67601

Low ry #5-13

Job Ticket: 64866 **DST#:** 5

ATTN: Steve Reed

Test Start: 2015.10.27 @ 06:10:00

#### GENERAL INFORMATION:

KC"D" Formation:

Deviated: Whipstock: ft (KB) Test Type: Conventional Straddle (Reset) No

> Tester: Brett Dickinson

Time Tool Opened: 08:06:30 Time Test Ended: 12:31:15

Unit No:

2009.00 ft (KB)

3252.00 ft (KB) To 3266.00 ft (KB) (TV D) Interval: Total Depth: 3266.00 ft (KB) (TVD)

Reference Bevations:

2001.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8934 Inside

Press@RunDepth: Start Date:

129.99 psig @ 3253.00 ft (KB)

2015.10.27

Capacity: Last Calib .:

8000.00 psig 2015.10.27

Start Time:

2015.10.27 06:10:05

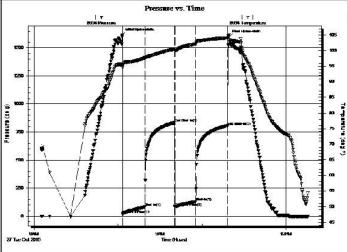
End Date: End Time:

12:31:14

Time On Btm: 2015.10.27 @ 08:05:45 Time Off Btm: 2015.10.27 @ 10:38:30

TEST COMMENT: IF-BOB in 21min

ISHNo blow FF-6in blow FSI-No blow



# PRESSURE SUMMARY

		PI	KESSUR	E SUMMARY	
į.	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
	0	1614.59	95.64	Initial Hydro-static	
	1	19.11	94.66	Open To Flow (1)	
	32	81.45	97.58	Shut-In(1)	
,	75	833.93	100.53	End Shut-In(1)	
	75	85.54	100.15	Open To Flow (2)	
	105	129.99	102.11	Shut-ln(2)	
	151	806.97	104.09	End Shut-In(2)	
•	153	1599.10	105.02	Final Hydro-static	
				20020	

#### Recovery

Length (ft)	Description	Volume (bbl)
2.00	OS MW 20%M 80%W	0.01
248.00	Water	3.22
Recovery from r	multiple tests	18

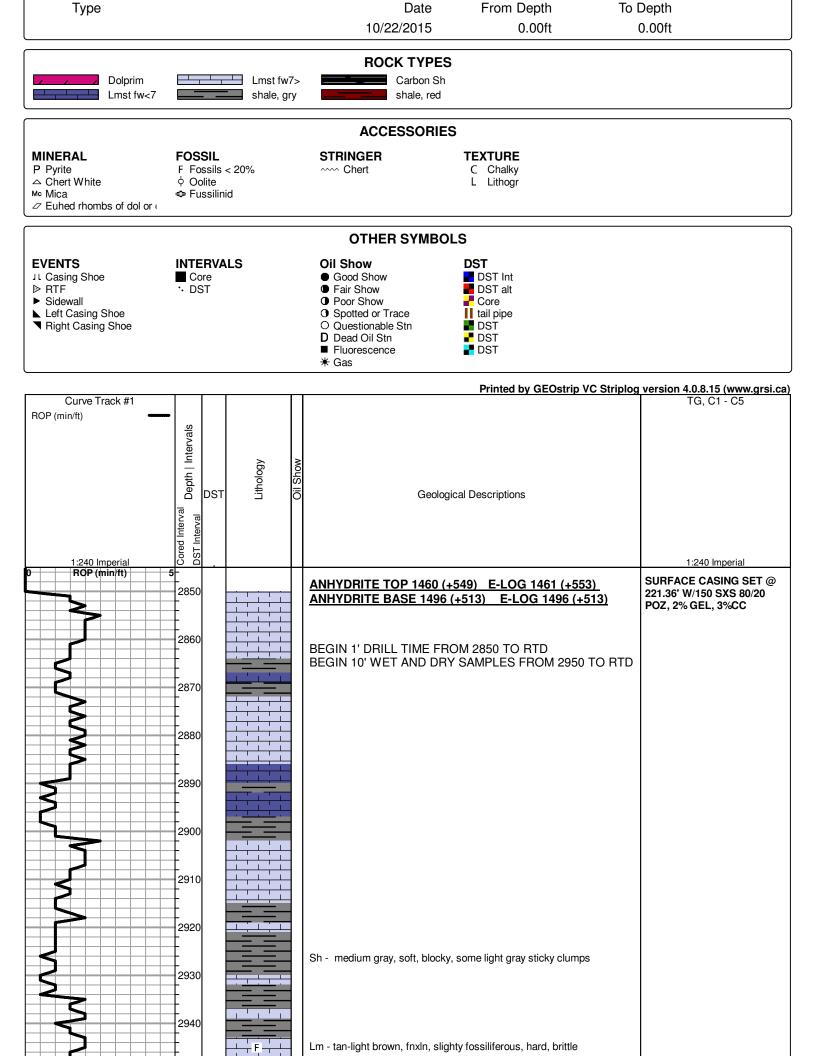
#### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
۱	n.	•	*

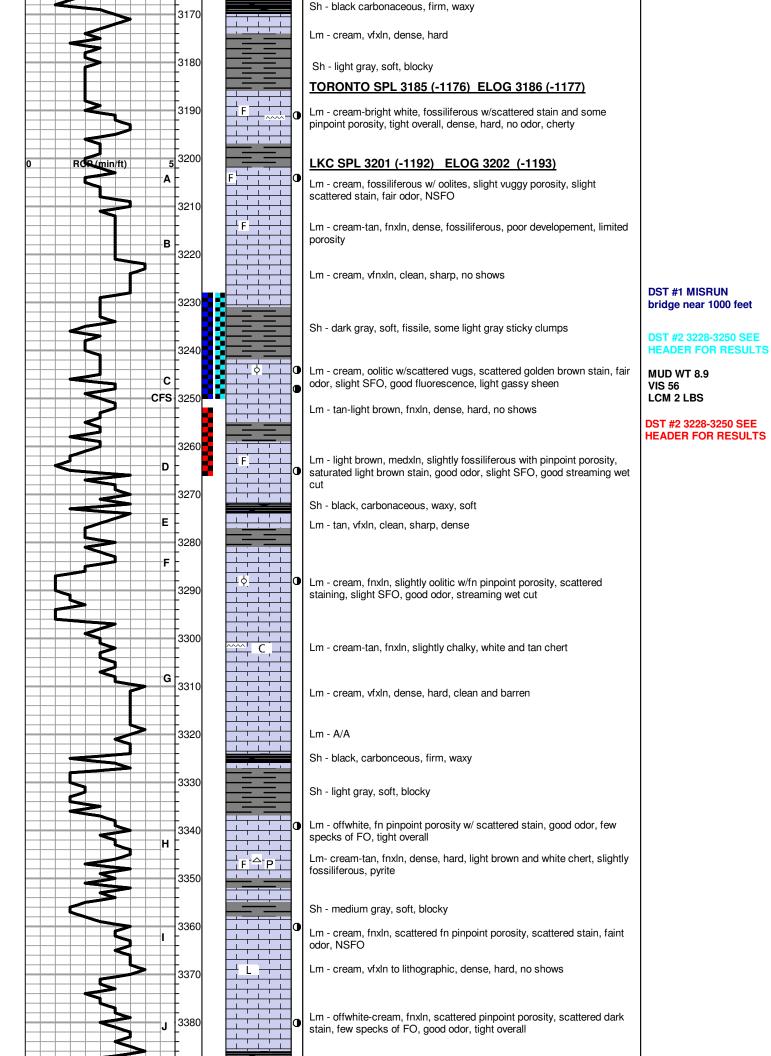
Trilobite Testing, Inc

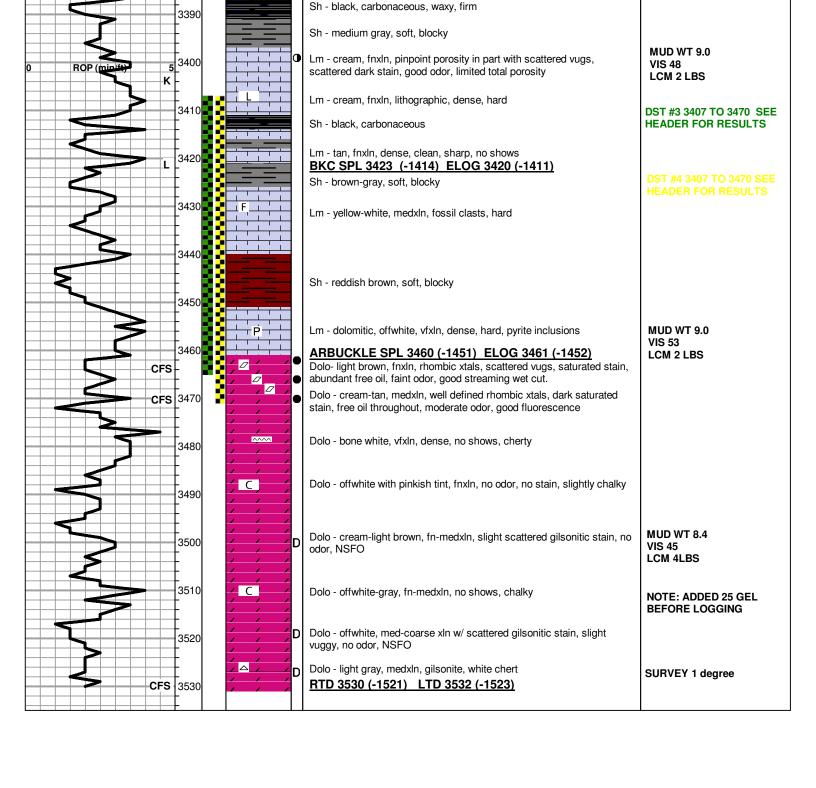
Ref. No: 64866

Printed: 2015.10.27 @ 13:00:00



TOPEKA SPL 2961 (-952) Lm - tan/cream, fossiliferous, hard, brittle Lm - tan, fossiliferous, medxln, pyrite, fusilinids	
Lm - tan/cream, fossiliferous, hard, brittle	
Las Ann face illiformus procedule provide foreillieide	
2970 P F - Lm - tan, fossiliferous, medxln, pyrite, fusilinids	
Lm - light-medium gray, medxln, fossiliferous, hard, brittle	
Lm - light brown, fnxln, scattered fossils, brittle	
2990  Lm - light brown/cream, fnxln, some sucrosic in part, fossiliferous,	
Slightly chalky  Shalight to medium grow soft blocky	
Sh - light to medium gray, soft, blocky	
Sh - A/A, micaceous in part	
3020 Lm - light brown, medxln, fossiliferous, brittle	MUD WT 8.7 VIS 50
3030	LCM 2 LBS
Lm - medium gray-brown, fnxln with dark fossil clasts, dense, hard	
Lm - light brown, medxln, fossiliferous, slightly chalky, brittle	
Sh - black carbonaceous, waxy with bronze specks	
3060  Lm - cream, medxln, fossiliferous, brittle, tan chert	
3070	
3080 Lm - cream, fnxln with pyrite inclusions, clean and sharp	
Lm - cream, fossiliferous, fn-medxln, brittle, cherty	
Sh - reddish brown, firm, blocky, some light gray sticky clumps	
3100 Lm - tan, fnxln, scattered fossils, dense, hard	
Sh - black carbonaceous, firm, fissile	
Lm - tan, fossiliferous, fnxln, scattered vuggy porosity, good odor, few specks of free oil, good streaming wet cut under UV light, tight overall, white chert	
2130 Lm - tan, fnxln, hard, dense, cherty, slight bedded chalk, no shows	
Lm - light brown, fnxln w/pinpoint porosity, scattered light brown stain, good odor, slight SFO, good fluorescence, hard, well cemented	
3150 Lm - cream-offwhite, vfxln, hard, brittle, bedded chalk in part, slight gilsonitic stain, white chert	
3160 Lm - tan-cream, vfxln, sharp and clean, dense	
HEEBNER SPL 3165 (-1156) ELOG 3165 (-1156)	







Outlaw Well Service

20-8-19, Rooks, KS

1408 West 42nd Hays KS 67601

Lowry #5-13

Job Ticket: 64862

DST#: 1

ATTN: Steve Reed

Test Start: 2015.10.24 @ 20:55:00

# **GENERAL INFORMATION:**

KC"C" Formation:

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial) Tester: Brett Dickinson

Time Tool Opened:

Time Test Ended: 23:21:30

Unit No: 59

2009.00 ft (KB)

Interval: 3228.00 ft (KB) To 3250.00 ft (KB) (TVD) Reference Elevations:

2001.00 ft (CF)

Total Depth: 3250.00 ft (KB) (TVD) Hole Diameter:

7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

Serial #: 8934

Outside

3229.00 ft (KB) psig @

Capacity: Last Calib.: 8000.00 psig

Press@RunDepth: Start Date:

2015.10.24

2015.10.24

Time On Btm:

2015.10.24

Start Time:

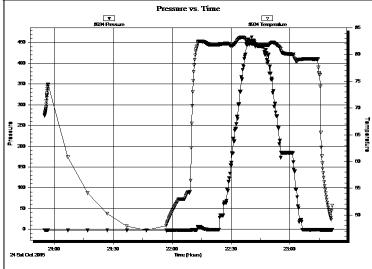
20:55:05

End Date: End Time:

23:21:30

Time Off Btm:

TEST COMMENT: Hit Bridge At 1000ft Mis run



	PRESSURE SUMMARY			
Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	

#### Recovery

Length (ft)	Description	Volume (bbl)

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

Printed: 2015.10.25 @ 22:47:20 Trilobite Testing, Inc. Ref. No: 64862



**FLUID SUMMARY** 

ppm

Outlaw Well Service 20-8-19, Rooks, KS

1408 West 42nd Lowry #5-13

Hays KS 67601 Job Ticket: 64862 DST#: 1

psig

Serial #:

ATTN: Steve Reed Test Start: 2015.10.24 @ 20:55:00

**Mud and Cushion Information** 

Mud Type: Gel Chem Cushion Type: Oil API: deg API Water Salinity:

Mud Weight: Cushion Length: 9.00 lb/gal ft bbl

Viscosity: 50.00 sec/qt Cushion Volume: Water Loss: 7.60 in<sup>3</sup>Gas Cushion Type:

Resistivity: Gas Cushion Pressure: ohm.m

Salinity: 900.00 ppm Filter Cake: inches

# **Recovery Information**

# Recovery Table

Length ft	Description	Volume bbl

Total Length: Total Volume: ft bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Printed: 2015.10.25 @ 22:47:20 Trilobite Testing, Inc Ref. No: 64862

Trilobite Testing, Inc

Ref. No: 64862

Printed: 2015.10.25 @ 22:47:20



Outlaw Well Service

20-8-19, Rooks, KS

1408 West 42nd Hays KS 67601

Lowry #5-13

Job Ticket: 64863

DST#: 2

ATTN: Steve Reed

Test Start: 2015.10.25 @ 03:10:00

#### **GENERAL INFORMATION:**

KC "C" Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:45:30 Time Test Ended: 09:25:00

Interval:

3228.00 ft (KB) To 3250.00 ft (KB) (TVD)

Total Depth: 3250.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair Hole Diameter:

Test Type: Conventional Bottom Hole (Reset)

Brett Dickinson

Unit No: 59

Reference Elevations:

2009.00 ft (KB)

2001.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8934 Outside

Press@RunDepth: 145.86 psig @ 3229.00 ft (KB)

> 2015.10.25 End Date:

2015.10.25

Capacity: Last Calib.:

Tester:

8000.00 psig

Start Date: Start Time: 03:10:05 End Time:

09:24:59

Time On Btm:

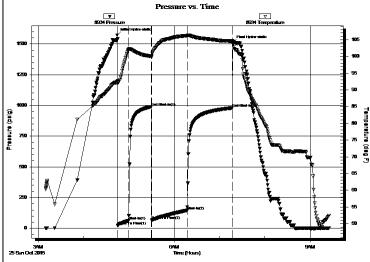
2015.10.25 2015.10.25 @ 04:44:45

Time Off Btm:

2015.10.25 @ 07:18:00

TEST COMMENT: IF-BOB in 12min

ISI-1/8in blow FF-BOB in 13min FSI-1/4in blow



FINESSURE SUIVIIVIAINT			
Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1571.44	92.47	Initial Hydro-static
1	21.05	91.96	Open To Flow (1)
15	63.21	101.92	Shut-In(1)
45	988.66	100.03	End Shut-In(1)
46	67.24	100.13	Open To Flow (2)
93	145.86	106.21	Shut-In(2)
153	979.27	104.53	End Shut-In(2)
154	1507.65	104.34	Final Hydro-static
	(Min.) 0 1 15 45 46 93 153	Time (Min.) Pressure (psig) 0 1571.44 1 21.05 15 63.21 45 988.66 46 67.24 93 145.86 153 979.27	Time (Min.) (psig) (deg F) 0 1571.44 92.47 1 21.05 91.96 15 63.21 101.92 45 988.66 100.03 46 67.24 100.13 93 145.86 106.21 153 979.27 104.53

PRESSURE SUMMARY

#### Recovery

Length (ft)	Description	Volume (bbl)			
180.00	MCW 90%W 10%M	2.25			
60.00	GWOCM 5%G 10%O 10%W 75%M	0.84			
50.00	GO 15%G 85%O	0.70			
0.00	120ft GIP	0.00			
* Recovery from mult	* Recovery from multiple tests				

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

Trilobite Testing, Inc. Ref. No: 64863 Printed: 2015.10.25 @ 22:46:47



**FLUID SUMMARY** 

Outlaw Well Service 20-8-19, Rooks, KS

1408 West 42nd Lowry #5-13

Hays KS 67601 Job Ticket: 64863 DST#: 2

ATTN: Steve Reed Test Start: 2015.10.25 @ 03:10:00

**Mud and Cushion Information** 

Mud Type: Gel Chem Cushion Type: Oil API: deg API Mud Weight: Cushion Length: ft Water Salinity: ppm

9.00 lb/gal Viscosity: 50.00 sec/qt Cushion Volume: bbl

Water Loss: 7.60 in<sup>3</sup>Gas Cushion Type:

Resistivity: Gas Cushion Pressure: ohm.m psig

Salinity: 900.00 ppm Filter Cake: inches

# **Recovery Information**

# Recovery Table

Length ft	Description	Volume bbl
180.00	MCW 90%W 10%M	2.252
60.00	GWOCM 5%G 10%O 10%W 75%M	0.842
50.00	GO 15%G 85%O	0.701
0.00	120ft GIP	0.000

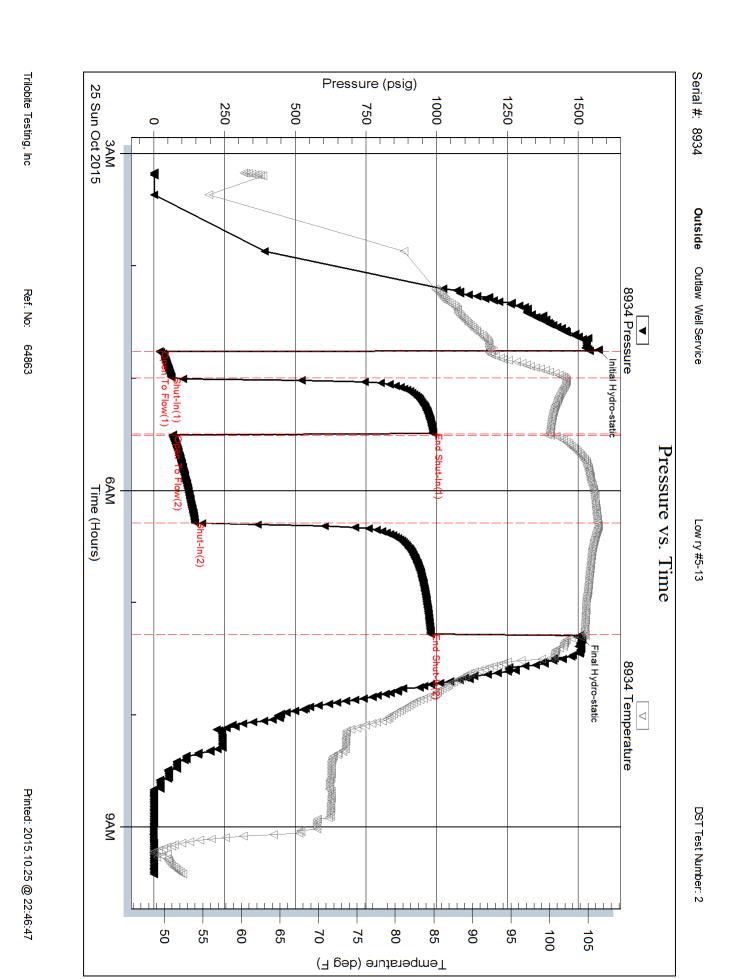
Total Length: 290.00 ft Total Volume: 3.795 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Printed: 2015.10.25 @ 22:46:47 Trilobite Testing, Inc Ref. No: 64863





Outlaw Well Service

20-8-19, Rooks, KS

1408 West 42nd Hays KS 67601

Lowry #5-13

Job Ticket: 64864

DST#: 3

ATTN: Steve Reed

Test Start: 2015.10.26 @ 01:45:00

# **GENERAL INFORMATION:**

Formation: Arb

Interval:

Start Date:

Start Time:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:52:00 Time Test Ended: 08:21:30

3407.00 ft (KB) To 3464.00 ft (KB) (TVD)

Total Depth: 3464.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No:

59

2009.00 ft (KB)

Reference Elevations:

2001.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8934 Outside

Press@RunDepth: 27.23 psig @

> 2015.10.26 01:45:05

3408.00 ft (KB) End Date:

End Time:

2015.10.26

Capacity: Last Calib.: 8000.00 psig

08:21:29

Time On Btm:

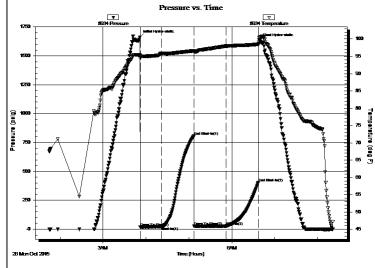
2015.10.26

Time Off Btm:

2015.10.26 @ 03:51:30 2015.10.26 @ 06:38:45

TEST COMMENT: IF-1in blow

ISI-No bloe FF-1/4in blow FSI-No blow



	PRESSURE SUMMARY			
1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1661.42	95.42	Initial Hydro-static
	1	16.28	94.46	Open To Flow (1)
	31	21.70	95.88	Shut-In(1)
.	76	804.74	96.59	End Shut-In(1)
	76	25.97	96.34	Open To Flow (2)
	120	27.23	97.95	Shut-In(2)
	166	403.26	98.49	End Shut-In(2)
'	168	1632.21	100.48	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)		
1.00	Oil	0.00		
14.00	VSOCM 5%O 95%M	0.07		
* Recovery from multiple tests				

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

Ref. No: 64864 Printed: 2015.10.26 @ 08:56:38 Trilobite Testing, Inc



**FLUID SUMMARY** 

Outlaw Well Service

20-8-19, Rooks, KS

1408 West 42nd Hays KS 67601 Lowry #5-13

67601 Job Ticket: 64864

DST#: 3

ATTN: Steve Reed

Test Start: 2015.10.26 @ 01:45:00

#### **Mud and Cushion Information**

7.60 in<sup>3</sup>

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:50.00 sec/qtCushion Volume:bbl

Gas Cushion Type:

ohm.m Gas Cushion Pressure: psig

Salinity: 900.00 ppm Filter Cake: inches

# **Recovery Information**

Water Loss:

Resistivity:

# Recovery Table

Length ft	Description	Volume bbl
1.00	Oil	0.005
14.00	VSOCM 5%O 95%M	0.069

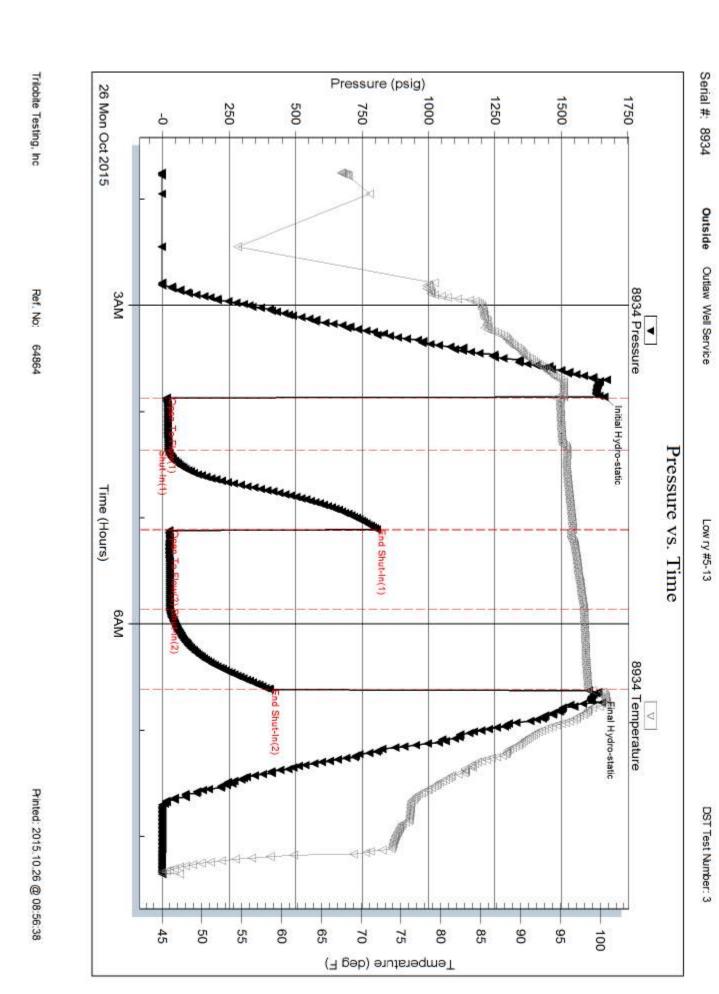
Total Length: 15.00 ft Total Volume: 0.074 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 64864 Printed: 2015.10.26 @ 08:56:38





Outlaw Well Service

20-8-19, Rooks, KS

1408 West 42nd Hays KS 67601

Lowry #5-13

Job Ticket: 64865

DST#: 4

ATTN: Steve Reed

Test Start: 2015.10.26 @ 13:15:05

# **GENERAL INFORMATION:**

Formation: Arb

Time Tool Opened: 15:21:00

Time Test Ended: 19:04:59

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

Tester: Brett Dickinson

Unit No: 59

3407.00 ft (KB) To 3470.00 ft (KB) (TVD)

Reference Elevations:

2009.00 ft (KB)

Total Depth: 3470.00 ft (KB) (TVD)

2001.00 ft (CF)

7.88 inches Hole Condition: Fair Hole Diameter:

KB to GR/CF:

8.00 ft

Serial #: 8934

Press@RunDepth:

Outside

3408.00 ft (KB) 374.11 psig @

8000.00 psig

Start Date: 2015.10.26 End Date: 2015.10.26 19:04:59

Time On Btm:

2015.10.26 2015.10.26 @ 15:20:30

Start Time:

Interval:

13:15:05

End Time:

Time Off Btm:

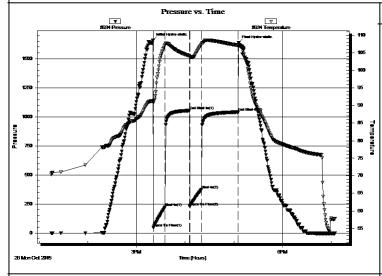
Capacity:

Last Calib.:

2015.10.26 @ 17:06:00

TEST COMMENT: IF-BOB in 3min

ISI-No blow FF-BOB in 3min FSI-No blow



P	RESSUR	RE SU	MMAF	۲Y
	_			

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1658.69	91.40	Initial Hydro-static
1	44.78	90.78	Open To Flow (1)
15	221.97	107.26	Shut-In(1)
45	1053.86	104.19	End Shut-In(1)
46	229.01	103.91	Open To Flow (2)
60	374.11	107.42	Shut-In(2)
105	1041.02	107.21	End Shut-In(2)
106	1635.49	107.37	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)		
480.00	MCW 70%W 30%M	6.46		
240.00	OS WCM 5%W 95%M	3.37		
* Recovery from multiple tests				

#### Gas Rates

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

Ref. No: 64865 Printed: 2015.10.27 @ 08:00:26 Trilobite Testing, Inc



**FLUID SUMMARY** 

DST#: 4

Outlaw Well Service

20-8-19, Rooks, KS

1408 West 42nd Hays KS 67601 Lowry #5-13

Job Ticket: 64865

Test Start: 2015.10.26 @ 13:15:05

ATTN: Steve Reed

**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: 25000 ppm

Viscosity: 50.00 sec/qt Cushion Volume: bbl

Water Loss: 7.60 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 900.00 ppm Filter Cake: inches

# **Recovery Information**

# Recovery Table

Length ft	Description	Volume bbl
480.00	MCW 70%W 30%M	6.460
240.00	OS WCM 5%W 95%M	3.367

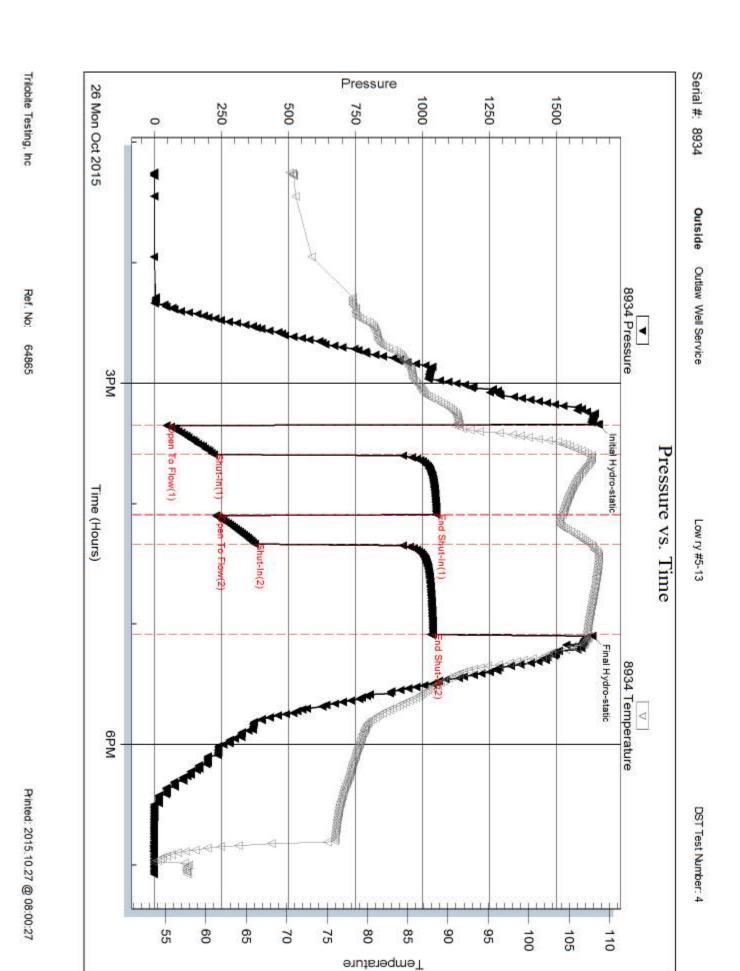
Total Length: 720.00 ft Total Volume: 9.827 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 64865 Printed: 2015.10.27 @ 08:00:26





Outlaw Well Service

20-8-19, Rooks, KS

1408 West 42nd Hays KS 67601

Lowry #5-13 Job Ticket: 64866

DST#: 5

ATTN: Steve Reed

Test Start: 2015.10.27 @ 06:10:00

# **GENERAL INFORMATION:**

Formation: KC"D"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:06:30 Time Test Ended: 12:31:15

Tester:

Test Type: Conventional Straddle (Reset) Brett Dickinson

Unit No: 59

3252.00 ft (KB) To 3266.00 ft (KB) (TVD)

Reference Elevations:

2009.00 ft (KB)

Total Depth: 3266.00 ft (KB) (TVD)

2001.00 ft (CF)

Hole Diameter:

7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8934 Press@RunDepth: Inside

129.99 psig @

3253.00 ft (KB)

Capacity: Last Calib.: 8000.00 psig

Start Date: Start Time:

Interval:

2015.10.27 06:10:05

End Date: End Time: 2015.10.27 12:31:14

Time On Btm: 2015.10.27 @ 08:05:45

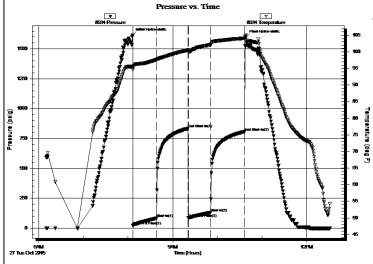
2015.10.27

Time Off Btm:

2015.10.27 @ 10:38:30

TEST COMMENT: IF-BOB in 21min

ISI-No blow FF-6in blow FSI-No blow



T	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1614.59	95.64	Initial Hydro-static
	1	19.11	94.66	Open To Flow (1)
	32	81.45	97.58	Shut-In(1)
	75	833.93	100.53	End Shut-In(1)
	75	85.54	100.15	Open To Flow (2)
1	105	129.99	102.11	Shut-In(2)
	151	806.97	104.09	End Shut-In(2)
	153	1599.10	105.02	Final Hydro-static

PRESSURE SUMMARY

#### Recovery

Length (ft)	Description	Volume (bbl)
2.00	OS MW 20%M80%W	0.01
248.00	Water	3.22
* Recovery from mult	iple tests	

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

Ref. No: 64866 Printed: 2015.10.27 @ 13:00:00 Trilobite Testing, Inc



Outlaw Well Service

20-8-19, Rooks, KS

1408 West 42nd Hays KS 67601

Lowry #5-13

Job Ticket: 64866

DST#: 5

ATTN: Steve Reed

Test Start: 2015.10.27 @ 06:10:00

# **GENERAL INFORMATION:**

KC"D" Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:06:30 Time Test Ended: 12:31:15

Interval:

3252.00 ft (KB) To 3266.00 ft (KB) (TVD)

Total Depth: 3266.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair Test Type: Conventional Straddle (Reset) Brett Dickinson

Unit No: 59

Reference Elevations:

2009.00 ft (KB)

2001.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8957 Below (Straddle)

Press@RunDepth: 3277.00 ft (KB) psig @

End Date: 2015.10.27 Capacity: Last Calib.:

Tester:

8000.00 psig 2015.10.27

Start Date: 2015.10.27 Start Time: 06:00:05

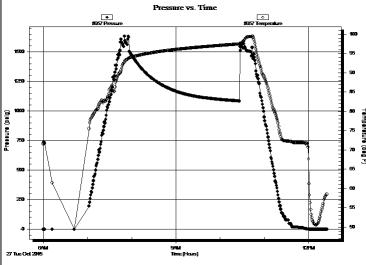
End Time:

Time On Btm: 12:24:59

Time Off Btm:

TEST COMMENT: IF-BOB in 21min

ISI-No blow FF-6in blow FSI-No blow



# PRESSURE SUMMARY

		• •		00
Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
_				
di.				
Temperature (deg F)				
(d				
Ē				

#### Recovery

Length (ft)	Description	Volume (bbl)
2.00	OS MW 20%M80%W	0.01
248.00	Water	3.22
* Recovery from mult	tiple tests	

#### Gas Rates

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

Trilobite Testing, Inc Ref. No: 64866 Printed: 2015.10.27 @ 13:00:00



**FLUID SUMMARY** 

Outlaw Well Service

20-8-19, Rooks, KS

1408 West 42nd Hays KS 67601 Lowry #5-13

Job Ticket: 64866

DST#: 5

ATTN: Steve Reed

Test Start: 2015.10.27 @ 06:10:00

#### **Mud and Cushion Information**

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:76000 ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:50.00 sec/qtCushion Volume:bbl

Water Loss: 7.60 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 900.00 ppm Filter Cake: inches

# **Recovery Information**

# Recovery Table

Length ft	Description	Volume bbl
2.00	OS MW 20%M 80%W	0.010
248.00	Water	3.224

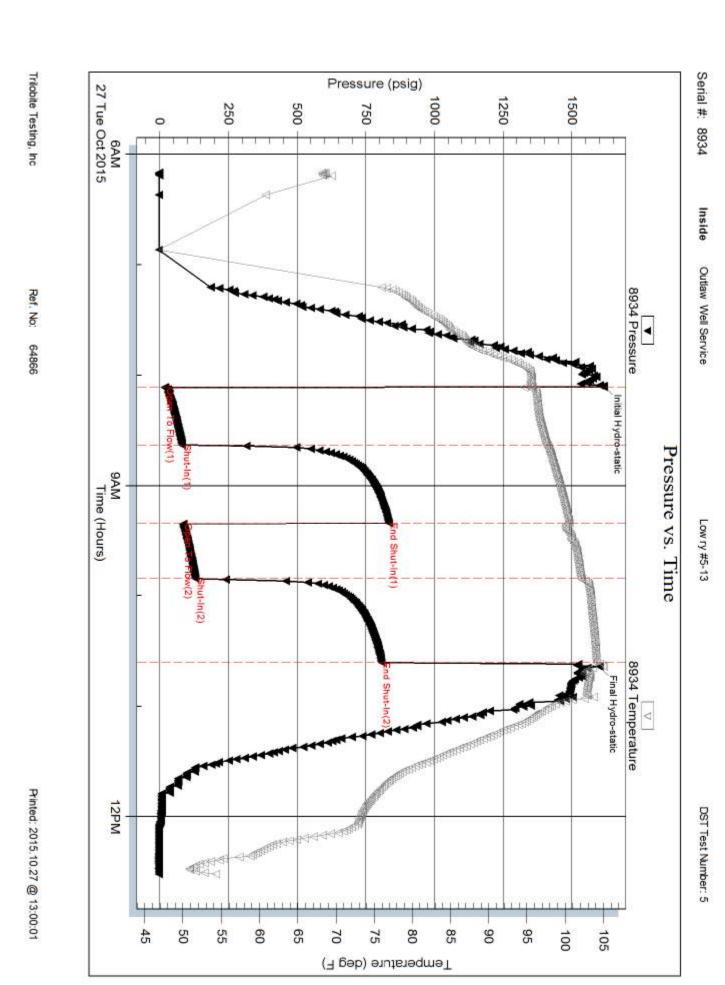
Total Length: 250.00 ft Total Volume: 3.234 bbl

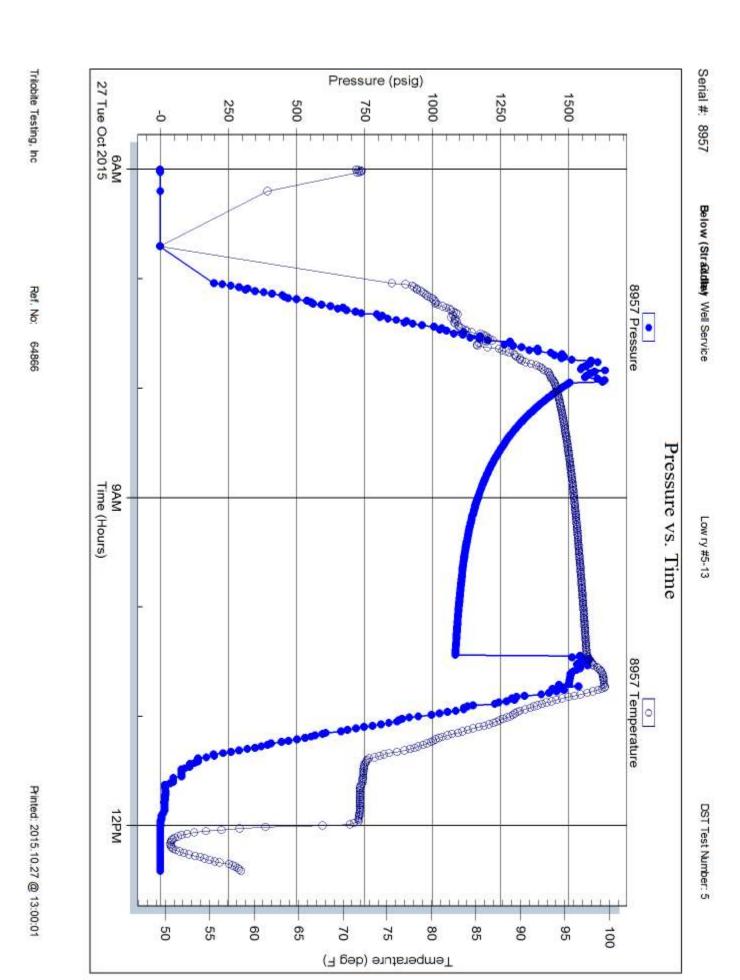
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 64866 Printed: 2015.10.27 @ 13:00:01





# QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2029 Cell 785-324-1041	5	Н	lome Office	P.O. B	Box 32 Ru	issell, KS 67665	No.	1907
ल्ला क्षेत्रीक सन्त्र भागाना ।	Sec.	Twp.	Range	10	County	State	On Location	Finish
Date 10-21-15	20	2	19	100	KS	K3	g duas coment, are no	7.00pm.
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Lease Lower	I meen	1 V. 1	Well No.5~	13	Owner			
Contractor Discover	1#4	ROSOO	ad la to 'H3	WOTZU	To Quality Oilwell Cementing, Inc.  You are hereby requested to rent cementing equipment and furnish			
Type Job Sorface	7"	15 law.	BIAN Just on	Right All A	cementer and helper to assist owner or contractor to do work as listed.			
Hole Size /2/4 T.D. 222			To Orthan Will Service					
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Tbg. Size	W SO	Depth		sang lega	City State			
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# 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. 1177

Sec. 12 x 2:	c. Twp.	Range	County	State	On Location	Finish 8/30
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Contractor Discours	9	SHALL IN A SH	You are h	ereby requested to ren	it cementing equipme	ent and furnish
Type Job Plus	3	(62.7	Charge	and helper to assist ov	1	do work as listed
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