

Co	nfiden	tiality	/ Requested:
	Yes	N	lo

## Kansas Corporation Commission Oil & Gas Conservation Division

1136016

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.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD ☐ SIOW ☐ Gas ☐ D&A ☐ ENHR ☐ SIGW	Elevation: Ground: Kelly Bushing:
OG GSW Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	
SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR	Operator Name:
GSW Permit #:	Lease Name: License #:
	Quarter Sec TwpS. R
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	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 II III Approved by: Date:

Page Two



Operator Name:				Lease N	Name: _			Well #:		
Sec Twp	S. R	East	West	County	:					
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres o surface test, along	sures, whethe with final cha	er shut-in pre art(s). Attach	essure reac n extra shee	hed stati t if more	c level, hydrosta space is neede	itic pressures, bot d.	tom hole temp	erature, fluid re	ecovery,
Final Radioactivity Lo files must be submitte						ogs must be ema	ailed to kcc-well-lo	gs@kcc.ks.go	v. Digital electr	ronic log
Drill Stem Tests Taker (Attach Additional		Yes	☐ No				on (Top), Depth ar		Sampl	
Samples Sent to Geo	logical Survey	Yes	□No		Nam	е		Тор	Datum	1
Cores Taken Electric Log Run		☐ Yes ☐ Yes	☐ No ☐ No							
List All E. Logs Run:										
				RECORD	Ne					
	2	1				ermediate, product		T	I	
Purpose of String	Size Hole Drilled		Casing n O.D.)	Weig Lbs. /		Setting Depth	Type of Cement	# Sacks Used	Type and Pe Additive	
			ADDITIONAL	CEMENTIN	NG / SQL	JEEZE RECORD				
Purpose:	Depth Top Bottom	Type of	Cement	# Sacks	Used		Type and F	ercent Additives		
Perforate Protect Casing	100 20111111									
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, ski	ip questions 2 ar	nd 3)	
Does the volume of the t							= :	p question 3)		
Was the hydraulic fractur	ring treatment information	on submitted to	the chemical	disclosure re	gistry?	Yes	No (If No, fill	out Page Three	of the ACO-1)	
Shots Per Foot		ION RECORD Footage of Eac					cture, Shot, Cement			epth
	open,					,,				
TUBING RECORD:	Size:	Set At:		Packer A	t:	Liner Run:				
							Yes No			
Date of First, Resumed	Production, SWD or Ef	NHR.   F	Producing Met	hod: Pumpin	a	Gas Lift 0	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wat			Gas-Oil Ratio	Gra	avity
	1									
	ON OF GAS:		en Hole	METHOD OF			mmingled	PRODUCTION	ON INTERVAL:	ļ
Vented Solo	Used on Lease bmit ACO-18.)		en noie _	Perf.	(Submit		mmingled mit ACO-4)			

Form	ACO1 - Well Completion
Operator	SDOCO, LLC
Well Name	Rees Ranch 2-19
Doc ID	1136016

# All Electric Logs Run

Compensated Sonic with Integrated Transit Time
Array Induction Shallow Focused Electric Log
Microresistivity Log
Compact Photo Density Compensated Neutron Log

Form	ACO1 - Well Completion
Operator	SDOCO, LLC
Well Name	Rees Ranch 2-19
Doc ID	1136016

# Tops

Name	Тор	Datum
Base Anhydrite	2363	+829
Heebner	3972	-780
Toronto	3994	-802
Lansing	4021	-829
Stark Shale	4326	-1134
Base Kansas City	4473	-1281
Marmaton	4508	-1316
Ft Scott	4630	-1438
Cherokee Shale	4645	-1453
Johnson Zone	4742	-1550
Morrow shale	4850	-1658
Mississippian	4953	-1761

	and the same of th
ALLIED OIL & GAS	CEDVICES IIC 058857
ALLED OIL & GAS	SERVICES, LLO
ALLIED OIL & STATE TO VIDE	20-5975804
l-edetat tax i.o.a.	SERVICE POINT:
REMIT TO P.O. BOX 93999	Oakley/19
SOUTHLAKE, TEXAS 76092	
	EDOUT ON LOCATION JOB START JOB FINISH
DAJE 1-5-13 SEC. 19 TWP. 19 RANGE 35 CALL	COUNTY STATE
DATE	Halke 55 Wichita 10
LEASE ACCOUNTS	89
OLD OR NEW (Circle one) Colonfo	1/01
H-7 #1	OWNER same
CONTRACTOR TIA	
TILBUTION TO 308'	AMOUNT ORDERED 2005 65 Com 39500
HOLE SIZE 12 4 TD. USD 1.5/1 CASING SIZE 898 DEPTH 347.5/1	AMOUNT ORDERED A GOODE
TUBING SIZE. DEPTH	a la get
DRILL PIPE DEPTH	- PA 42
TOOL. DEPTH	COMMON 200 = KS @ 12.90 3580.00
PRES. MAX MINIMUM	2. 2. 0
MEAS, LINE SHOE JOINT	GEL 7.5KS @23.70 1118 PM
CRIMEIAL PELLIN COO.	CHLORIDE Z = Z =
PERFS. DISPLACEMENT 18.92 661	ASC@
EQUIPMENT 78: 78: 78: 78: 78: 78: 78: 78: 78: 78:	
EQUIPMENT	i 7
- Lakene Lakene Lantz	@
PUMPTRUCK CEMENTER LAKERY (1897)	0
DULK TOLICK	· · · · · · · · · · · · · · · · · · ·
# 342 DRIVER David Socione	@!
BULKTRUCK	0 - 120 35
# DRIVER	HANDLING 2/6,2787 @ 2 4 \$ 536.35
	MILEAGE 7.87 Para 10 X di GOITTE
REMARKS:	690,90 TOTAL 2454,29
MIX 200 sts cament	109000
Displace with water	SERVICE
2100	
Commitded circulate	DEPTH OF JOB 307,5/
	PUMP IROCA CHAROB
	EXTRA FOOTAGE MILEAGE/MLAU 70 @ 7.70 539.00
T. Mur	MANIFOLD Swedge @ 275.00
Thombyer	MELL 70 94.40 308.00
,	@
CHARGE TO: 500CO. LLC	
	TOTAL -26321-25
STREET	
CITYSTATEZIP	
	PLUG & FLOAT EQUIPMENT
To: Allied Oil & Gas Services, LLC.	
You are hereby requested to rent cementing equipment	
and furnish cementer and helper(s) to assist owner or	
contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or	TOTAL
contractor. I have read and understand the "GENERAL	TOTAL
TERMS AND CONDITIONS" listed on the reverse side.	SALES TAX (If Any) 342,09
interes established on the teverse side.	0 000 511
DEINTED MANE (MON) Miles	TOTAL CHARGES 7,00009
PRINTED NAME GAY () 20	DISCOUNT 1908 59 IF PAID IN 30 DAYS
	019 7179.95 met
SIGNATURE John John	0110
V / / /	



Prepared For:

**SDOCOLLC** 

PO box 369 Littleton, CO 80160

ATTN: Gary Doke

## Rees Ranch #2-19

## 19-19s-35w Wichita,KS

Start Date: 2013.01.09 @ 21:55:00

End Date:

2013.01.10 @ 07:28:15

Job Ticket #: 51264

DST#: 1

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



SDOCO LLC

PO box 369 Littleton, CO 80160

ATTN: Gary Doke

ft (KB)

19-19s-35w Wichita, KS

Rees Ranch #2-19

Job Ticket: 51264

DST#: 1

Test Start: 2013.01.09 @ 21:55:00

### GENERAL INFORMATION:

Formation:

Marmaton

Deviated:

No

Whipstock:

Time Tool Opened: 00:23:30 Time Test Ended: 07:28:15

Interval:

4490.00 ft (KB) To 4525.00 ft (KB) (TVD)

Total Depth:

4525.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester:

Sam Esparza

Unit No:

Reference Elevations:

3191.00 ft (KB)

3181.00 ft (CF)

KB to GR/CF:

10.00 ft

Serial #: 8845

Outside

Press@RunDepth: Start Date:

Start Time:

608.88 psig @

2013.01.09 21:55:05 4491.00 ft (KB) End Time:

End Date:

2013.01.10

07:28:15

Last Calib.:

Capacity:

8000.00 psig

2013.01.10 2013.01.10 @ 00:23:15

Time On Btm: Time Off Btm:

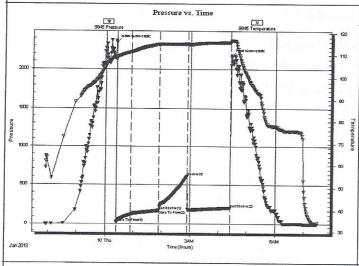
2013.01.10 @ 04:27:30

TEST COMMENT: IF: BOB @ 18 min.

ISI: BOB return @ 28 min.

FF: BOB immediatly died back to 8 3/4" blow .

FSI: BOB return @ 31 min.



## PRESSURE SUMMARY

	г	NESSUR	CE SUMMART	
Time	Pressure	Temp	Annotation	
(Min.)	(psig)	(deg F)		
0	2348.19	109.41	Initial Hydro-static	
1	23.50	108.09	Open To Flow (1)	
31	125.47	111.45	Shut-In(1)	
91	178.29	114.91	End Shut-In(1)	
91	178.37	114.92	Open To Flow (2)	
151	608.88	115,11	Shut-In(2)	
243	212.85	115.76	End Shut-In(2)	
245	2176.23	116.77	Final Hydro-static	
		- %.		
	1			

### Recovery

Length (ft)	Description	Volume (bbl)
188.00	GOCM 20g 20o 60m	0.92
292.00	OG 55g 45o	2.44
0.00	940' GIP	0.00

### Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 51264

Printed: 2013.01.15 @ 14:24:51



SDOCO LLC

19-19s-35w Wichita, KS

PO box 369

Littleton, CO 80160 Job Ticket: 51264

ATTN: Gary Doke

Rees Ranch #2-19

DST#: 1

Test Start: 2013.01.09 @ 21:55:00

#### **GENERAL INFORMATION:**

Formation:

Marmaton

Deviated:

No

Whipstock:

ft (KB)

Time Tool Opened: 00:23:30 Time Test Ended: 07:28:15

Interval:

4490.00 ft (KB) To 4525.00 ft (KB) (TVD)

Total Depth:

4525.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester:

Sam Esparza

Unit No:

Reference Elevations:

3191.00 ft (KB)

3181.00 ft (CF)

KB to GR/CF:

10.00 ft

Serial #: 8017 Press@RunDepth: Outside

psig @ 2013.01.09

4491.00 ft (KB) End Date:

2013.01.10

Capacity: Last Calib.: 8000.00 psig

2013.01.10

Start Date: Start Time:

21:55:05

End Time:

07:28:15

Time On Btm:

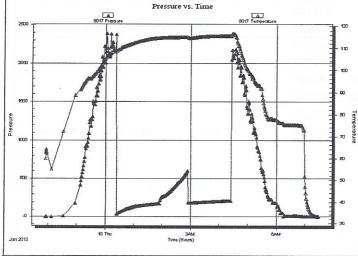
Time Off Btm:

TEST COMMENT: IF: BOB @ 18 min.

ISI: BOB return @ 28 min.

FF: BOB immediatly died back to 8 3/4" blow.

FSI: BOB return @ 31 min.



	ressure Temp		
Min.)	(psig) (deg F		
240	in .		
		a	
		man some This co	
		2	
	*		

#### Recovery Length (ft) Description Volume (bbl) 188.00 0.92 GOCM 20g 20o 60m 292.00 OG 55g 45o 2.44 0.00 940' GIP 0.00

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



TOOL DIAGRAM

SDOCO LLC

19-19s-35w Wichita, KS

PO box 369

Rees Ranch #2-19

Job Ticket: 51264

Littleton, CO 80160

DST#:1

ATTN: Gary Doke

Test Start: 2013.01.09 @ 21:55:00

Tool Information

Drill Pipe:

Length:

Length: 4109.00 ft Diameter: Heavy Wt. Pipe: Length:

0.00 ft Diameter: 370.00 ft Diameter:

Diameter:

3.80 inches Volume: 0.00 inches Volume: 2.25 inches Volume:

57.64 bbl 0.00 bbl Tool Weight:

2000.00 lb Weight set on Packer: 30000.00 lb

Final 70000.00 lb

Total Volume:

1.82 bbl 59.46 bbl

Weight to Pull Loose: 90000.00 lb

Drill Pipe Above KB: Depth to Top Packer: Depth to Bottom Packer:

12.00 ft 4490.00 ft

ft

Tool Chased

0.00 ft String Weight: Initial 67000.00 lb

Interval between Packers: Tool Length:

Drill Collar:

35.00 ft

58.00 ft

6.75 inches

Number of Packers:

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum, Lengths	
Change Over Sub	1.00			4468.00		
Shut In Tool	5.00			4473.00		
Sampler	2.00			4475.00		
Hydraulic tool	5.00			4480.00		
Change Over Sub	1.00			4481.00		
Packer	5.00			4486.00	23.00	Bottom Of Top Packer
Packer	4.00		P3.	4490.00		DOMONI OF TOP THORE
Stubb	1.00			4491.00		
Recorder	0.00	8017	Outside	4491.00		
Recorder	0.00	8845	Outside	4491.00		
Perforations	29.00			4520.00		
Bullnose	5.00			4525.00	35.00	Bottom Packers & Anchor
Total Tool Longth	5000					

Total Tool Length:

58.00

Trilobite Testing, Inc.

Ref. No: 51264

Printed: 2013.01.15 @ 14:24:53



FLUID SUMMARY

SDOCO LLC

PO box 369 Littleton, CO 80160

ATTN: Gary Doke

19-19s-35w Wichita, KS

Rees Ranch #2-19

Job Ticket: 51264

DST#: 1

Test Start: 2013.01.09 @ 21:55:00

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Mud Weight:

Viscosity: Water Loss:

Resistivity:

Salinity: Filter Cake:

-1

0.00 ohm.m 4800.00 ppm

1.00 inches

46.00 sec/qt

7.97 in<sup>3</sup>

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API: Water Salinity: 32 deg API ppm

Serial #:

psig

ft

bbl

Recovery Information

Recovery Table

	Length ft	Description	Volume bbl
1	188.00	GOCM 20g 20o 60m	0.925
r	292.00	OG 55q 450	2.438
	0.00	940' GIP	0.000

Total Length:

480.00 ft

Total Volume:

3.363 bbl

Num Fluid Samples: 0 Laboratory Name: Num Gas Bombs:

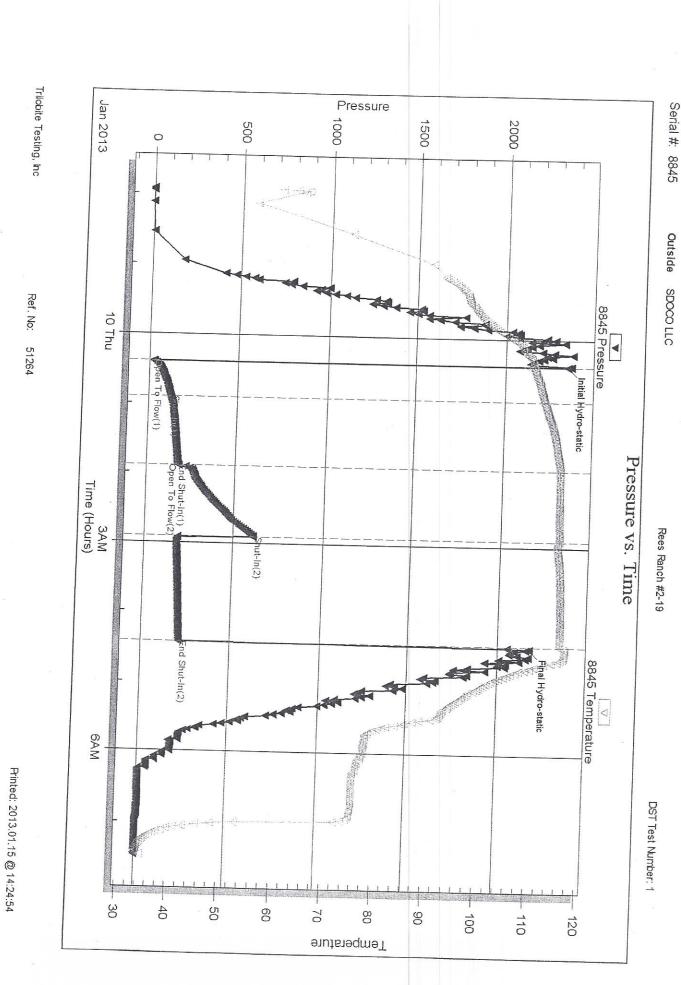
Laboratory Location:

Recovery Comments: Oil API: 30 @ 40 degrees = 32

Printed: 2013.01.15 @ 14:24:54

Trilobite Testing, Inc

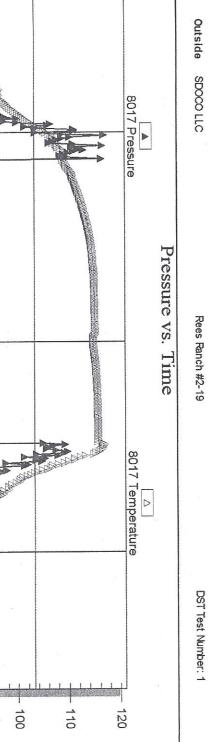
Ref. No: 51264



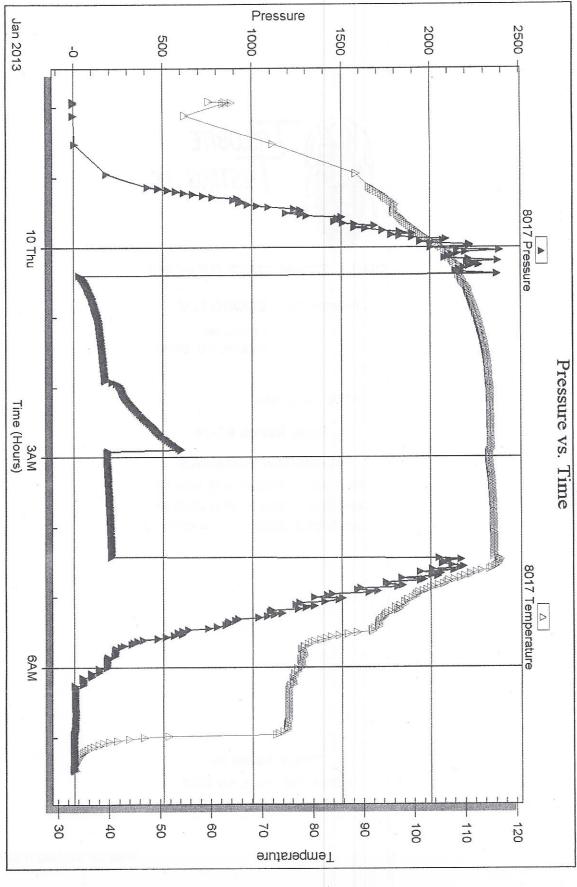




Printed: 2013.01.15 @ 14:24:55



Serial #: 8017





Prepared For:

SDOCO LLC

PO box 369

Littleton, CO 80160

ATTN: Gary Doke

Rees Ranch #2-19

19-19s-35w Wichita,KS

Start Date:

2013.01.10 @ 14:23:00

End Date:

2013.01.10 @ 23:32:45

Job Ticket #: 51265

DST#: 2

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



SDOCO LLC

19-19s-35w Wichita, KS

PO box 369

Littleton, CO 80160

ATTN: Gary Doke

Rees Ranch #2-19

Job Ticket: 51265

DST#: 2

Test Start: 2013.01.10 @ 14:23:00

#### GENERAL INFORMATION:

Formation:

Marmaton

Deviated:

Interval:

Whipstock: No

ft (KB)

Time Tool Opened: 17:02:15 Time Test Ended: 23:32:45

Tester:

Test Type: Conventional Bottom Hole (Reset)

Sam Esparza

Unit No:

Reference Elevations: 3191.00 ft (KB)

KB to GR/CF:

3181.00 ft (CF) 10.00 ft

Total Depth: Hole Diameter: 4538.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good

4524.00 ft (KB) To 4538.00 ft (KB) (TVD)

Serial #: 8017

Outside

Press@RunDepth:

psig @ 2013.01.10

4525.00 ft (KB) End Date:

2013.01.10

Capacity: Last Calib .: 8000.00 psig

Time On Btm:

2013.01.10

Start Date: Start Time:

14:24:25

End Time:

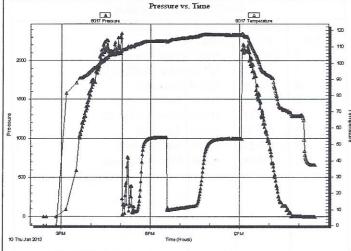
23:32:59

Time Off Btm:

TEST COMMENT: IF: 4 3/4" blow.

ISI: Weak surface return died @ 45 min.

FF: BOB @ 57 min. FSI: Weak surface return.



# PRESSURE SUMMARY Pressure Temp Annotation

	(Min.)	(psig)	(deg F)	
		77		
Teme				
Temperature				
				4-2

#### Recovery

Length (ft)	Description	Volume (bbl)
94.00	GOMCW 5g 10o 30m 55w	0.46
114.00	GOCM 20g 20o 60m	0.56
168.00	GO 50g 50o	0.88
0.00	188' GIP	0.00
* Recovery from r	multiple tests	

20224	2233
000	Rates
(7dS	Tales

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

Trilobite Testing, Inc.

Ref. No: 51265

Printed: 2013.01.15 @ 14:24:09



SDOCO LLC

19-19s-35w Wichita, KS

PO box 369

Job Ticket: 51265

Rees Ranch #2-19

ATTN: Gary Doke

Littleton, CO 80160

Test Start: 2013.01.10 @ 14:23:00

GENERAL INFORMATION:

Formation:

Marmaton

Deviated:

No Whipstock:

ft (KB)

Time Tool Opened: 17:02:15 Time Test Ended: 23:32:45

Test Type: Conventional Bottom Hole (Reset)

Tester:

Sam Esparza

Unit No:

64

Reference Elevations:

3191.00 ft (KB)

3181.00 ft (CF)

KB to GR/CF:

10.00 ft

Interval: Total Depth: Hole Diameter: 4524.00 ft (KB) To 4538.00 ft (KB) (TVD)

4538.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good

Serial #: 8017 Press@RunDepth: Outside

psig @

4525.00 ft (KB)

Capacity: 2013.01.10 Last Calib.: 8000.00 psig

2013.01.10

Start Date: Start Time:

2013.01.10 14:24:25

End Date: End Time:

23:32:59

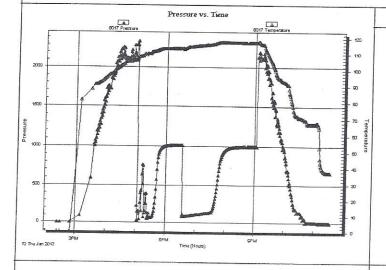
Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 4 3/4" blow.

ISI: Weak surface return died @ 45 min.

FF: BOB @ 57 min. FSI: Weak surface return.



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	

PRESSURE SUMMARY

#### Recovery

Description	Volume (bbl)
GOMCW 5g 10o 30m 55w	0.46
GOCM 20g 20o 60m	0.56
GO 50g 50o	0.88
188' GIP	0.00
	GOMCW 5g 10o 30m 55w GOCM 20g 20o 60m GO 50g 50o

## Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 51265

Printed: 2013.01.15 @ 14:24:09



TOOL DIAGRAM

SDOCO LLC

19-19s-35w Wichita, KS

Rees Ranch #2-19

PO box 369 Littleton, CO 80160

Job Ticket: 51265

DST#: 2

ATTN: Gary Doke

Test Start: 2013.01.10 @ 14:23:00

Final

Printed: 2013.01.15 @ 14:24:10

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 4140.00 ft Diameter:

0.00 ft Diameter:

3.80 inches Volume: 0.00 inches Volume: 58.07 bbl 0.00 bbl

Tool Weight: Weight set on Packer: 30000.00 lb

2000.00 lb

Drill Collar:

2.25 inches Volume:

Weight to Pull Loose: 110000.0 lb

Length:

370.00 ft Diameter:

1.82 bbl

Drill Pipe Above KB:

7.00 ft

Total Volume: 59.89 bbl Tool Chased

0.00 ft

Depth to Top Packer:

4524.00 ft

Depth to Bottom Packer:

ft

String Weight: Initial 69000.00 lb

70000.00 lb

Interval between Packers: Tool Length:

Number of Packers:

14.00 ft

35.00 ft Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4504.00		
Shut In Tool	5.00			4509.00		
Hydraulic tool	5.00			4514.00		
Change Over Sub	1.00			4515.00		
Packer	5.00			4520.00	21.00	Bottom Of Top Packer
Packer	4.00			4524.00		
Stubb	1.00			4525.00		
Recorder	0.00	8017	Outside	4525.00		
Recorder	0.00	8845	Outside	4525.00		
Perforations	8.00			4533.00		
Bullnose	5.00			4538.00	14.00	Bottom Packers & Anchor

Total Tool Length:

35.00



FLUID SUMMARY

SDOCO LLC

19-19s-35w Wichita, KS

PO box 369

Rees Ranch #2-19

Job Ticket: 51265

DST#: 2

ATTN: Gary Doke

Littleton, CO 80160

Test Start: 2013.01.10 @ 14:23:00

Oil API:

Water Salinity:

#### Mud and Cushion Information

Mud Type: Gel Chem Mud Weight:

9.00 lb/gal 56.00 sec/qt

Viscosity: Water Loss:

7.98 in<sup>3</sup>

Resistivity: Salinity: Filter Cake:

0.00 ohm.m 5600.00 ppm 1.00 inches Cushion Type:

Cushion Length: Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

30 deg API ppm

Recovery Information

## Recovery Table

Length ft	Description	Volume bbl
94.00	GOMCW 5g 10o 30m 55w	0.462
114.00	GOCM 20g 20o 60m	0.561
168.00	GO 50g 50o	0.881
0.00	188' GIP	0.000

Total Length:

376.00 ft

Total Volume:

1.904 bbl

Num Fluid Samples: 0

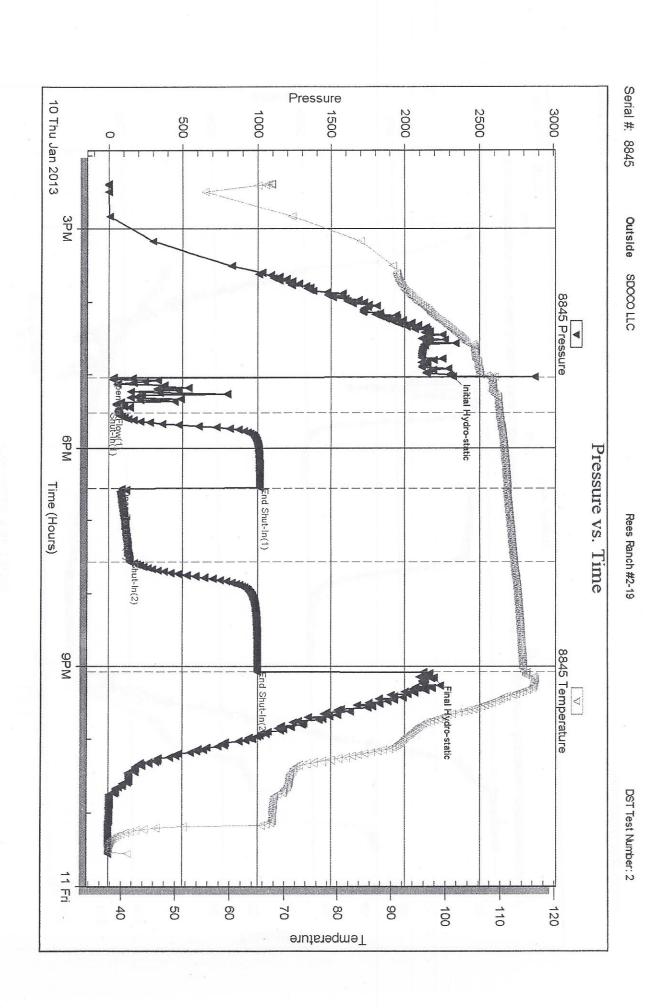
Num Gas Bombs:

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API: 28 @ 40 degrees = 30



Trilobite Testing, Inc

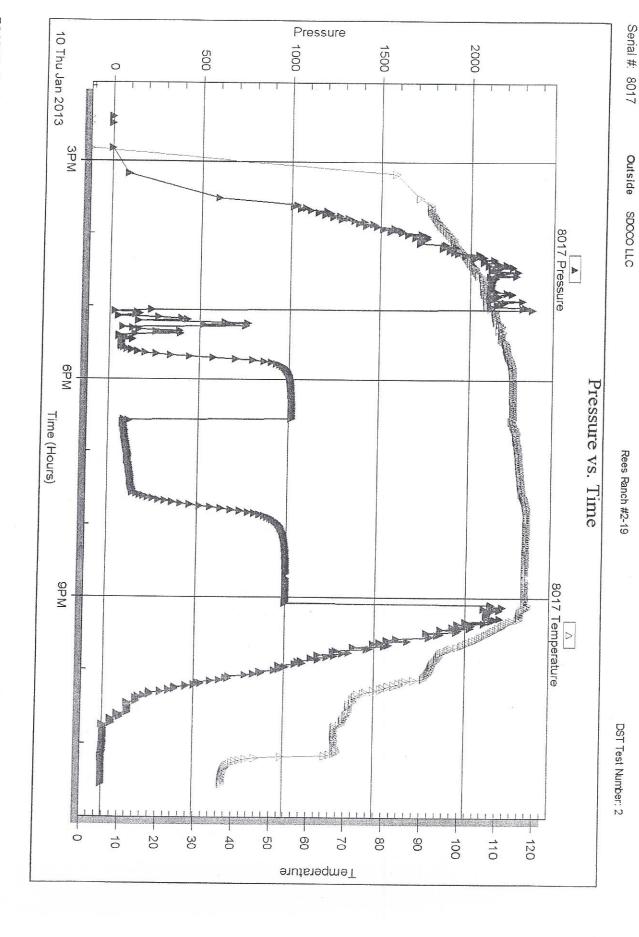
Ref. No: 51265

Printed: 2013.01.15 @ 14:24:12





Printed: 2013.01.15 @ 14:24:12





Prepared For:

SDOCO LLC

PO box 369 Littleton, CO 80160

ATTN: Gary Doke

## Rees Ranch #2-19

## 19-19s-35w Wichita,KS

Start Date:

2013.01.11 @ 11:09:00

End Date:

2013.01.11 @ 17:06:00

Job Ticket #: 51266

DST#: 3

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



SDOCO LLC

19-19s-35w Wichita, KS

PO box 369

Littleton, CO 80160

Rees Ranch #2-19 Job Ticket: 51266

DST#: 3

ATTN: Gary Doke

Test Start: 2013.01.11 @ 11:09:00

GENERAL INFORMATION:

Formation:

Ft. Scott

Deviated:

Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened:

Time Test Ended: 17:06:00

Tester:

Sam Esparza

No

Unit No:

64

Interval:

3191.00 ft (KB)

Total Depth:

4583.00 ft (KB) To 4615.00 ft (KB) (TVD) 4615.00 ft (KB) (TVD)

Reference Elevations:

3181.00 ft (CF)

Hole Diameter:

7.88 inches Hole Condition: Good

KB to GR/CF:

10.00 ft

Serial #: 8845

Press@RunDepth:

Outside

psig @

4584.00 ft (KB)

Capacity:

8000.00 psig

Start Date:

2013.01.11

End Date:

2013.01.11

Last Calib .: Time On Btm: 2013.01.11

Start Time:

11:09:05

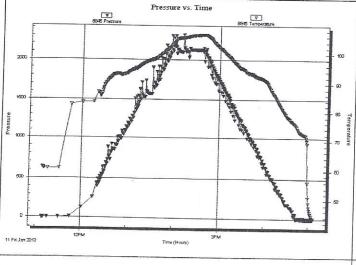
End Time:

17:05:59

Time Off Btm:

TEST COMMENT: IF: Hit a bridge.

FF: FSI:



	PF	RESSUR	E SUMMARY	
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	

Recovery Length (ft) Description Volume (bbl) \* Recovery from multiple tests

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

Trilobite Testing, Inc.

Ref. No: 51266

Printed: 2013.01.15 @ 14:23:28



SDOCO LLC

19-19s-35w Wichita, KS

PO box 369

Job Ticket: 51266

Rees Ranch #2-19

DST#: 3

ATTN: Gary Doke

Littleton, CO 80160

Test Start: 2013.01.11 @ 11:09:00

## GENERAL INFORMATION:

Formation:

Ft. Scott

Deviated:

No Whipstock:

ft (KB)

Time Tool Opened:

Time Test Ended: 17:06:00

Tester:

Test Type: Conventional Bottom Hole (Reset)

Sam Esparza

Unit No:

Reference Elevations:

3191.00 ft (KB)

3181.00 ft (CF)

KB to GR/CF:

10.00 ft

Interval: Total Depth: 4583.00 ft (KB) To 4615.00 ft (KB) (TVD)

4615.00 ft (KB) (TVD)

Hole Diameter:

Serial #: 8017

7.88 inches Hole Condition: Good

8000.00 psig

Press@RunDepth: Start Date:

psig @ 2013.01.11

4584.00 ft (KB) End Date:

2013.01.11

Capacity: Last Calib.:

2013.01.11

Start Time:

11:09:05

Outside

End Time:

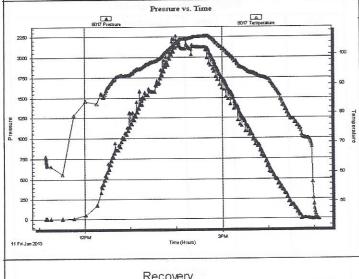
17:06:14

Time On Btm: Time Off Btm:

TEST COMMENT: IF: Hit a bridge.

ISI: FF:

FSI:



	PF	RESSUR	E SUMMARY
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
			N. I. J. J. J.
		1	

-		Values (bbl)
Length (ft)	Description	Volume (bbl)
	1/	
		- 24

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

Trilobite Testing, Inc

Ref. No: 51266

Printed: 2013.01.15 @ 14:23:28



**TOOL DIAGRAM** 

SDOCO LLC

19-19s-35w Wichita, KS

PO box 369

Job Ticket: 51266

DST#: 3

Littleton, CO 80160

Rees Ranch #2-19

ATTN: Gary Doke

Test Start: 2013.01.11 @ 11:09:00

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length: Drill Collar:

Drill Pipe Above KB:

Length: 4204.00 ft Diameter:

Length:

0.00 ft Diameter:

370.00 ft Diameter: 11.00 ft

3.80 inches Volume: 0.00 inches Volume: 2.25 inches Volume: Total Volume:

0.00 bbl 1.82 bbl 60.79 bbl

58.97 bbl

Tool Weight: 2000.00 lb Weight set on Packer: 30000.00 lb

Final

Weight to Pull Loose: Tool Chased

String Weight: Initial

0.00 ft

lb

lb

Depth to Top Packer: Depth to Bottom Packer:

4583.00 ft

Interval between Packers: Tool Length: Number of Packers:

32.00 ft 52.00 ft

ft

2 Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4564.00	Accum. Lengths	
Shut In Tool	5.00			4569.00		
Hydraulic tool	5.00		74	4574.00		
Packer	5.00			4579.00	20.00	_
Packer	4.00			4583.00	20.00	Bottom Of Top Packer
Stubb	1.00			4584.00		
Recorder	0.00	8017	Outside	4584.00		
Recorder	0.00	8845	Outside	4584.00		
Perforations	26.00	99.10	Catalac	0.000		
Bullnose	5.00			4610.00		
Total Tool Length				4615.00	32.00	Bottom Packers & Anchor



**FLUID SUMMARY** 

SDOCO LLC

19-19s-35w Wichita, KS

PO box 369

Rees Ranch #2-19 Job Ticket: 51266

ft

bbl

psig

DST#: 3

ATTN: Gary Doke

Littleton, CO 80160

Test Start: 2013.01.11 @ 11:09:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: Viscosity:

Water Loss:

Resistivity:

Salinity: Filter Cake:

9.00 lb/gal 48.00 sec/qt

0.00 ohm.m

11.98 in<sup>3</sup>

9400.00 ppm 2.00 inches Cushion Type:

Cushion Length:

Cushion Volume: Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

**Recovery Information** 

Recovery Table

Length Description Volume ft bbl

Total Length:

ft

Total Volume:

bbl

Num Fluid Samples: 0

Laboratory Name:

Recovery Comments:

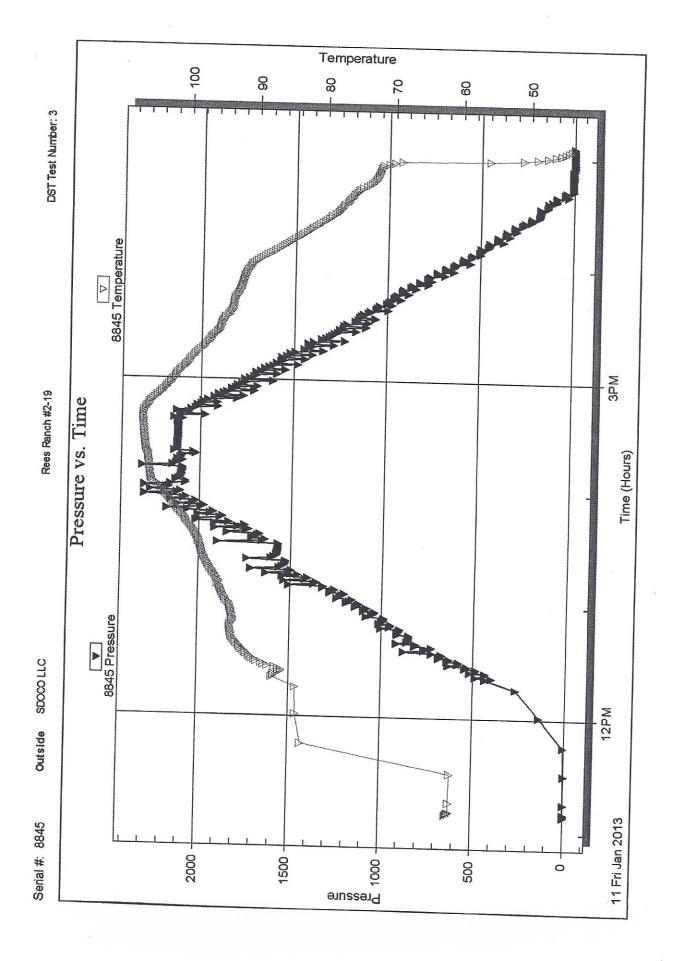
Num Gas Bombs: Laboratory Location:

Serial #:

Trilobite Testing, Inc

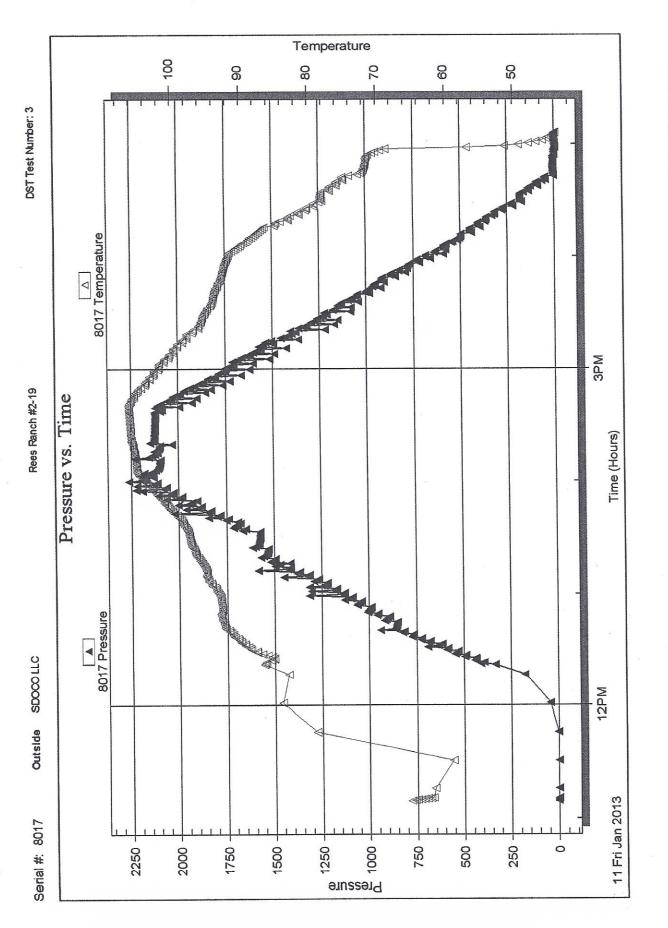
Ref. No: 51266

Printed: 2013.01.15 @ 14:23:30



Spiritarion,

Trilobite Testing, Inc



Printed: 2013.01.15 @ 14:23:32



Prepared For:

SDOCO LLC

PO box 369 Littleton, CO 80160

ATTN: Gary Doke

Rees Ranch #2-19

19-19s-35w Wichita,KS

Start Date: 2013.01.11 @ 23:48:00

End Date:

2013.01.12 @ 08:06:30

Job Ticket #: 51267

DST#: 4

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620 SDOCO LLG 19-195-35W WICHINGHOO



SDOCO LLC

PO box 369 Littleton, CO 80160

ATTN: Gary Doke

19-19s-35w Wichita, KS

Rees Ranch #2-19

Job Ticket: 51267

DST#: 4

Test Start: 2013.01.11 @ 23:48:00

## GENERAL INFORMATION:

Formation:

Ft. Scott

Deviated:

Whipstock: No

ft (KB)

Time Tool Opened: 01:58:45 Time Test Ended: 08:06:30

Interval:

4583.00 ft (KB) To 4615.00 ft (KB) (TVD)

Outside

Total Depth:

4615.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester:

Sam Esparza

Unit No:

Reference Elevations:

3191.00 ft (KB)

3181.00 ft (CF)

KB to GR/CF:

10.00 ft

Serial #: 8845

84.18 psig @

4584.00 ft (KB)

2013.01.12

Capacity:

8000.00 psig

Last Calib.: Time On Btm:

2013.01.12 2013.01.12 @ 01:58:30

Press@RunDepth: Start Date:

Start Time:

2013.01.11 23:48:05

End Date: End Time:

08:06:29

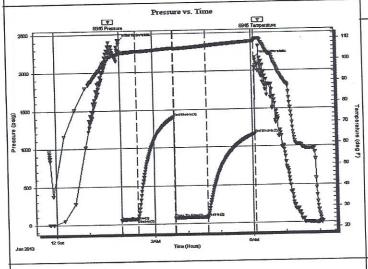
Time Off Btm:

2013.01.12 @ 06:06:00

TEST COMMENT: IF: Weak surface blow.

ISI: No return.

FF: No blow. FSI: No return.



# PRESSURE SUMMARY

		F1	LOGOIL	L OOM NOT CO	
-	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
	0	2417.92	104.58	Initial Hydro-static	
	1	49.59	103.06	Open To Flow (1)	
	31	63.67	104.51	Shut-In(1)	
	99	1404.10	105.96	End Shut-In(1)	
	99	75.34	105.48	Open To Flow (2)	
	158	84.18	106.91	Shut-ln(2)	
	246	1170.62	108.78	End Shut-In(2)	
	248	2171.55	109.75	Final Hydro-static	
				1	

### Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud 100m	0.59
* Recovery from	multiple tests	

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 51267

Printed: 2013.01.15 @ 14:19:54



SDOCO LLC

19-19s-35w Wichita, KS

PO box 369 Littleton, CO 80160

Rees Ranch #2-19

Job Ticket: 51267

DST#: 4

ATTN: Gary Doke

Test Start: 2013.01.11 @ 23:48:00

GENERAL INFORMATION:

Formation:

Ft. Scott

Deviated:

No

Whipstock:

ft (KB)

Time Tool Opened: 01:58:45 Time Test Ended: 08:06:30

Interval:

Start Date:

Start Time:

4583.00 ft (KB) To 4615.00 ft (KB) (TVD)

Total Depth:

4615.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Good

Test Type:

Conventional Bottom Hole (Reset)

Tester:

Sam Esparza

Unit No:

Reference Elevations:

3191.00 ft (KB)

3181.00 ft (CF)

KB to GR/CF:

10.00 ft

Serial #: 8017 Press@RunDepth:

Outside

psig @ 2013.01.11

23:48:05

4584.00 ft (KB)

End Date: End Time:

2013.01.12 08:06:29 Capacity:

8000.00 psig 2013.01.12

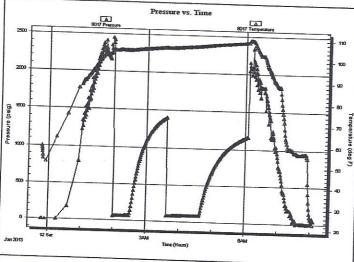
Last Calib .:

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak surface blow.

ISI: No return. FF: No blow. FSI: No return.



	PI	RESSUR	RE SUMMARY	
Terror products (class E)	Pressure (psig)	Temp (deg F)	RE SUMMARY Annotation	
				s

Recovery Length (ft) Description Volume (bbl) 120.00 Mud 100m 0.59 Recovery from multiple tests

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

Trilobite Testing, Inc

Ref. No: 51267

Printed: 2013.01.15 @ 14:19:54



TOOL DIAGRAM

SDOCO LLC

PO box 369 Littleton, CO 80160

ATTN: Gary Doke

19-19s-35w Wichita, KS

Rees Ranch #2-19

Job Ticket: 51267

DST#:4

Test Start: 2013.01.11 @ 23:48:00

Tool Information

Drill Collar:

Drill Pipe: Heavy Wt. Pipe: Length:

0.00 ft Diameter: Length: 370.00 ft Diameter:

11.00 ft

4583.00 ft ft

Interval between Packers: 32.00 ft Tool Length:

Number of Packers: Tool Comments:

Drill Pipe Above KB:

Depth to Top Packer:

Depth to Bottom Packer:

Length: 4204.00 ft Diameter:

58.97 bbl 3.80 inches Volume: 0.00 bbl 0.00 inches Volume: 1.82 bbl 2.25 inches Volume:

60.79 bbl Total Volume:

Tool Weight:

2000.00 lb Weight set on Packer: 30000.00 lb

Weight to Pull Loose: 95000.00 lb 0.00 ft Tool Chased

String Weight: Initial 70000.00 lb Final 70000.00 lb

52.00 ft Diameter:

6.75 inches

	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Tool Description				4564.00		
Change Over Sub	1.00			4569.00		
Shut In Tool	5.00			4574.00		
Hydraulic tool	5.00			4579.00	20.00	Bottom Of Top Packer
Packer	5.00					
	4.00			4583.00		
Packer	1.00			4584.00		
Stubb	0.00	8017	Outside	4584.00		
Recorder		8845	Outside	4584.00		
Recorder	0.00	0043	Juliolad	4610.00		
Perforations	26.00				32.00	Bottom Packers & Anchor
Bullnose	5.00			4615.00	32.00	
Total Tool Leng	th: 52.0	0				

Total Tool Length:

52.00



FLUID SUMMARY

SDOCO LLC

19-19s-35w Wichita, KS

PO box 369

Rees Ranch #2-19

Job Ticket: 51267

DST#: 4

ATTN: Gary Doke

Littleton, CO 80160

Test Start: 2013.01.11 @ 23:48:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight:

9.00 lb/gal 48.00 sec/qt

Viscosity:

Water Loss: Resistivity:

Filter Cake:

Salinity:

0.00 ohm.m

9400.00 ppm

11.99 in<sup>3</sup>

2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API ppm

Gas Cushion Type:

psig

ft

bbl

Recovery Information

Recovery Table

Volume Description Length ft bbl 0.590 Mud 100m 120.00

Total Length:

120.00 ft

Total Volume:

0.590 bbl

Num Fluid Samples: 0

Laboratory Name:

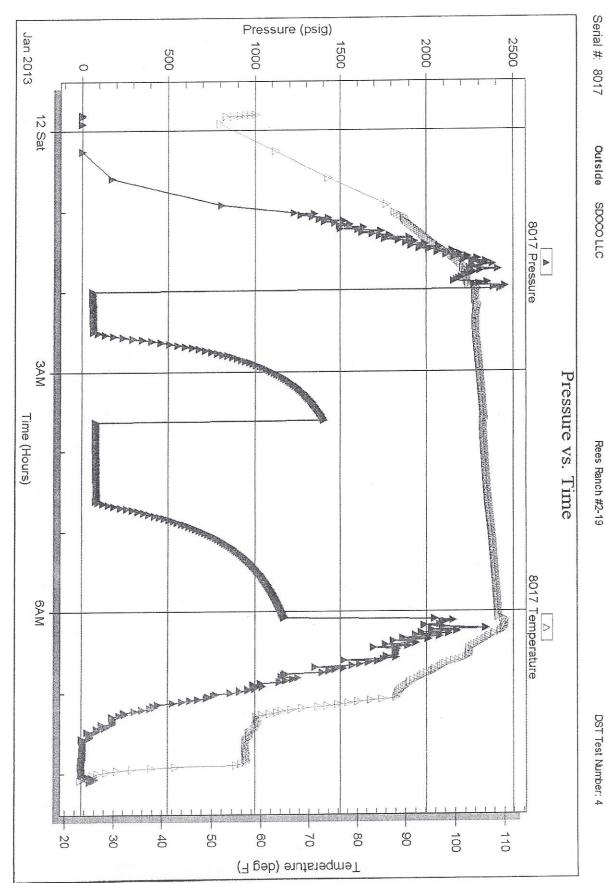
Recovery Comments:

Num Gas Bombs: Laboratory Location: Serial #:

Printed: 2013.01.15 @ 14:19:57

Printed: 2013.01.15 @ 14:19:58

Outside SDOCOLLC





# RILOBITE ESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

# **Test Ticket**

4/10		2		ne 1/11/13	
Well Name & No. Rees Roch #2-1	}	Test No.		0141	
Company SDOCO LLC	and the second s	Elevation <u>3</u> /	11	кв 5/8/	GL
Address Ab Box 369 Littleton	(D 80160	110 \$ 1	And the second s		
Co Ben/Geo. Gory Doke	and the second s	Rig#2.#1		a. K	
Location: Sec. 19 Twp. 19\$	Rge. 35 W	_ co. W. chita		State KS	
nterval Tested 4583 - 4615	Zone Tested/	K.f. Scott		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	the and of the process and address to required
Anchor Length 30.	Drill Pipe Run	4204		iwi. 4.3	
Top Packer Depth 4579	Drill Collars Run	370	and the second of the second	48	
Boltom Packer Depth <u>4583</u>	Wt. Pipe Run_	ml .		12.0	
Total Depth 4615	Chlorides 94		System LC	M_5	rije ( ) i po vetovin aktorio aktorio positi ( ) po tom
			All the same and the same and the same about	and the second s	Commence - 1800, 1971, commence an agent finance
Blow Description Hit A BRING	SE				
			recording defining included and considered in Principle (1999)	A COMMENT OF THE PARTY OF THE P	
	2				
Rec Feet of		%gas	%oil	%water	%mu(
Rec Feet of		%gas	%oil	%water	%mu
RecFeet of		%gas	%oil	%water	%mu
Rec Feet of		%gas	%oil	%water	%mu
Rec Feet of		%gas	%oil	%water	%mu
Rec Total BHT	Gravity	API RW@		hlorides	ppı
(A) Initial Hydrostatic		0	I-On Lock	ilion 10:45	
(B) First Initial Flow/	_ U Jars		-	11:09	
(C) First Final Flow	_ U Safety Joint		T-Open	. 11/4	a comment addressed sets of the latest set of the
	Circ Sub	/	T-Pulled _	1 1	
(D) Initial Shut-In(E) Second Initial Flow	☐ Hourly Standby		T-QuI	17:06	
(F) Second Final Flow		2 R/T 80.60	Commen	S	
(G) Final Shut-In	/ .	· ·		A CONTRACTOR OF THE PROPERTY O	
(H) Final Hydrostatic				d Shale Packer	
(H) Pinai nyolosiano	X Shale Packer	250		d Packer	
Through the same of the same o	/ \			Copies	
Initial Open		of		0	
Initial Shut-In			_ 1	530.60	
Final Flow		150		bisc't	
Final Shut-In	Sub Total 1530		- //		
11/2) no H	17	Our Depresentative /	11		
Approved By  Indobite Testing Inc. shall not be liable for damaged of all y kind of the pro- equipment, or its statements or opinion concerning the results of any les			es suffered or such ing	d, directly or indirectly, three	ough the use of i



Printeralt Printers 9/01

# TRILOBITE TESTING, INC. P.O. Box 362 • Hays, Kansas 67601

PLER DATA
Date 1/9/13
Test No. 1
Sec. 19 Twp. 19\$ Ang. 35W
PIT MUD ANALYSIS
Chlorides 4800 ppm.
Resistivity ohms @F
Viscosity 46
Mud Weight 9.2
Filtrate 8.0
Other Lim-5 Cake-1
PIPE RECOVERY
TOP Resistivity ohms @ F
Chloridesppm.
S. III.
MIDDLE Resistivity ohns @ F
Chloridesppm.
BOTTOM Resistivity ohms @ F
Chloridesppm.

::



# RILOBITE ESTING INC.

1515 Commerce Parkway · Hays, Kansas 67601

# **Test Ticket**

4ito	7	Date 1/10/13
Well Namo & No. Res Roach \$9-19	Tost No	Date 110/15  KB 316 GL
- 1110/0 110	Elevation 39	KB 210 1
Address B Box 3.9 Littlebay CO	80160	
	1119	- Court KS
Location: Sec. 19 Twp. 195 F	age. 35W co. Wichita	State A.
11521-11528	Zone Tested Marmiton	0.1
1.07	Drill Pipe Run 4140	Mud WI9. /
Anchor Length 14 Top Packer Depth 4520	Drill Collars Run 370	vis <u>56</u>
Top Packer Depth 1000	Wt. Pipe Run	WL 810
Bottom Packer Depth 4524		System LCM 4
Total Depth 4538		
Blow Description 43/ Glow. West Swface return died	0,45 min	
BOB @ 57 min.		
West Surface returns		
	- O 703132	50 %oil %water %mud
IIII = GOCM	25 %gas C	20%oil %water 60%mud
Rec 94 Feet of GOMCW	5 %gas	10 %011 55%water 30 %mud
Rec Feel of 188' GIP	%gas	%oil %water %mud
	%gas	%oil %water %mud
RecFeet ofBHT	Gravity 30 APLRW@	ppm
2000	Test 1250	T-On Location
(A) Initial Prycrostatic22		T-Started 14:23
(B) First Initial Flow	The state of the s	T-Open 17:01
(C) First Final Flow	CI Safety Joint	T-Pulled 21:03
(D) Initial Shut-In	Circ Sub _V/C	T-Out 23:32
(E) Second Initial Flow	Hourly Standby	Comments
(F) Second Final Flow	Mileago 52 K/ 1 80.60	
(G) Final Shift-III	□ Sampler	□ Ruined Shale Packer
(H) Final Hydrostatic 296	Straddlo	
	Shale Packer 250	
Initial Open	☐ Extra Packer	
Initial Shut-In 60	Extra Recorder	1230 60
Final Flow GO	Day Standby	TOTAL DIAM
Final Shut-In	Accessibility 150	
1/ -00	Sub Total 1730.60	
//	Our Representative	1
Approved By  Tritobite Testing Inc. shall not be liable for damaged of any kind of the prope equipment, or its statements or opinion concerning the results of any test, to		



# RILOBITE [ESTING INC.] 1515 Commerce Parkway • Hays, Kansas 67601

# **Test Ticket**

Final Flow	4/10 -, - 1.				, ,	
Company   SDC-Co   LLC	Well Name & No. Rees Roch \$2-1	9			Date 1/11/13	
Address   Addr			Elevation3	MI	KB 5/8/	GL
Co. Rep / Geo.   Grry Doke   Location: Sec.   G Twp.   P3   Rgo.   35 (J)   Co.   M. (In I)   State   M.	1 2 -	CO 80160				and the second s
Interval Tosted			Rig_ H2.#	1		
Interval Tosted   4583 - 4615   Zone Tested   147. Scoff   Anchor Length   281	Location: Sec. 19 Twp. 19\$				State KS	
Anchor Length   32						
Top Packer Depth 4553	· · · · · · · · · · · · · · · · · · ·	D. W. Dina Dan		M	11 9.3	OF THE PARTY COMPANY COMMANDS
Bottom Packer Depth 4563		toron a toron				
Total Depth   Ut   S			/			and the Control of the Control of the
Rec	Boltom Packer Depth 4307				<i>_</i>	
Rec	Total Depth	Chlorides	)ppm	i System L.	NVI	
Rec		:C				
Rec	HH A DRILL	2!				
Rec						
Rec	Rec Feet of		%gas	%oil	%water	%mud
Rec			%gas	%oil	%water	%mud
Rec Feet of %gas %oil %water %mud Rec Feet of %gas %oil %water %mud Rec Total BHT Gravity API RW @ F Chloridos ppm (A) Initial Hydrostatic Test 1050 T-On Location 1/0:45 (B) First Initial Flow Gries Final Flow Gries Second Initial Flow Gries Sub Maleage	The annual name of the off (1) (2) (1) (1) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2		%gas	%oil	%water	%mud
RecFeet olBHTGravityAPLRW@*F Chloridesppm  APLRW@*F Chloridesppm  APLRW*F Chlorides  APLRW				%oil	%water	%mud
Rec Total BHT Gravity API RW © F Chloridos ppm  (A) Initial Hydrostatic Test 1050 FOn Location 10:45  (B) First Initial Flow				%oil	%water	%mud
(A) Initial Hydrostatic  (B) First Initial Flow  (C) First Final Flow  (D) Initial Shut-In  (E) Second Initial Flow  (G) Final Flow  (G) Final Shut-In  (F) Second Final Flow  (G) Final Shut-In  (H) Final Hydrostatic  (E) Second Final Flow  (G) Final Shut-In  (E) Second Final Flow  (G) Final Shut-In  (E) Second Final Flow  (G) Final Shut-In  (D) Sampler  (H) Final Hydrostatic  (E) Second Final Flow  (E) Sampler  (F) Second Final Flow  (F) Second Final Flow				o °FC	hlorides	ppm
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(E) Second Initial Flow  (F) Second Final Flow  (G) Final Shut-In  (H) Final Hydrostatic  (				T-Pulled _	_ <i>N/A</i>	
(F) Second Final Flow  (G) Final Shut-In  (H) Final Hydrostatic  U Straddle  Shale Packer  Shale Packer  D Extra Packer  Initial Open  U Extra Recorder  Sub Total  D Day Standby  Final Shut-In  D Day Standby  Our Representative  Our Representative  Our Representative  Our Representative  Our Representative  Our Representative				T-QuI	17:06	
(G) Final Shut-In Sampler  (H) Final Hydrostatic Shale Packer  Shale Packer 250 LI Ruined Shale Packer  Initial Open LI Extra Packer Sub Total 0  Final Flow Total 1530.60  Approved By Our Representative			1 ·	Comment	5	
(H) Final Hydrostatic	20. 5	/ \	1			
Initial Open						and the second s
Initial Open	(H) Final Hydrostatic					78 F 200
Initial Shut-In		/ \ .				
Final Flow	Initial Open					
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Approved By  Our Representative  Our Representative or for any last is made or for any last suffered or sustained, directly or indirectly, through the use of its	Final Flow				,	
Approved By Our Representative or for any last semantic or for any last suffered or sustained, directly or indirectly, through the use of its	Final Shut-In			MP/DST	tisc't	. 2 .
Approved by		Sub Total 1530.60	)	_//	( )	)
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	(A)	y or personnel of the one for whom a l ols lost or damaged in the hole shall be	est is made, or for any loss paid for at cost by the part	suffered or sustained y for whom the test is	, o recey or monestry, torosty made	pri est 620 8( 113



# RILOBITE ESTING INC.

1515 Commerce Parkway · Hays, Kansas 67601

# **Test Ticket**

Rec	4/10			1	2 ;	
Company   SDC.O.     C   C   C   C   C   C   C   C   C	Well Name & No. Rees Rock #2-19		Test No	4	Date 1/11/13	
Address P.O. Beax 369 L.Hildes Co 501670  Co. Rep / Geo. 76 Y Dock Rep. 189 Rep. 35 W Co. Within State #5  Interval tested #583 4(45 Zone Tested Ff. Scott Anchor Length 32 Drill Pipe Run 404 Mud Wr. 9.3  Top Packer Depth 4579 Drill Collars Run 372 Vis 4/4  Blottom Packor Dopth 4583 Wr. Pipe Run 7 Wr. Pipe Run 7 Wr. 20  State Blow Doscription West Surface West. Wr. Pipe Run 7 Wr. 20  Chlorides 9400 ppm System LCM 5  Blow Doscription West Surface West. Wr. Pipe Run 7 Wr. 20  NO return.  NO return.  NO return.  NO return.  Rec Foot of Mass Well Warder West.  Rec Foot of West Fine Foot of West West West.  Rec Foot of West Fine Foot of West West.  Rec Total 120 BHT N9 Gravity API FW 9 FO. Chlorides pp.  (A) Initial Hydrostatic West.  (B) First Initial Flow 64 Safety Joint Foot Depth 16 (2)  (C) First Final Flow 9 Mileage SURFT As 161.20  (C) First Final Flow 17 Commonth As J. W. W. Pipe Run 17 Commonth As J. W. W. W. Pipe Run 18 Collars Run 1	Company Shore LLC		Elevation	3131	KB 3781	GL
Co. Rep / Geo. Crefy Scke. Location: Sec. 99 Twp. 19\$ Rge. 35 LJ Co. Whith State KS  Interval Tested 15 83 4 4 (15 Zone Tested Fr. Scoff Anchor Length 32 Drill Pipe Run 204 Mud Wt. 93  Top Packer Dopth 4 5 79 Drill Collars Run 3 70 Vis. 18  Blow Doscription 24 6 5 Wt. Pipe Run 2 Wt. 2 0  Total Dopth 4 6 5 Wt. 2 0  To		0 80160			12	AAAAAA VIIIOONAA kaa aa aa aadamaa iiraa
Interval Tested   15 83 - 4			Rig Ho	1112		
Interval Tested US 83 - 4(15	Location: Sec. 19 Twp. 19\$	Rge. 35 W		1/2	State K	5
Anchor Longth 32  Trip Packer Depth 4579  Bottom Packer Depth 4583  Will Pipe Run  Will Jo  Total Depth 4615  Blow Doscription  NO 1645  NO 1647  NO 1647  NO 1647  NO 1647  NO 1647  NO 1647  Rec Foet of Musch  Rec Total Jo  BHT NO Gravity API RW @ F Chlorides  Pon Location 2333 O  Fon Commonts Available Musch  Fon Location 2333 O  Fon Commonts Available Musch  Fon Location 2333 O  Fon Chlorides  Fon Chlorides  Fon Location 2333 O  Fon Chlorides  Fon Location 2333 O  Fon Chlorides  Fon Chlorides  Fon Location 2333 O  Fon Chlorides  Fon Chlorides  Fon Chlorides  Fon Chlorides  Fon Location 2333 O  Fon Chlorides  Fon Location 2333 O  Fon Chlorides  Fon Location 2333 O  Fon Chlorides  Fon Chlorides  Fon Location 2333 O  Fon Chlorides  Fon Chlorides  Fon Chlorides  Fon Chlorides  Fon Chlorides  Fon Chlorides  Fon Location 2333 O  Fon Chlorides		Zone Tested /	F. Scott			
Top Packer Depth 4579 Bottom Packer Depth 4583 Total Depth 4615 Blow Doscription (Act 5 surface 16 sus) NO return. NO blows NO return. NO blows NO return. Rec Foet of Munch Rec Feet of %gas %oil %water %mu Rec Feet of %gas %oil %wa	2 - /		• • • • • • • • • • • • • • • • • • • •		Mud Wt. 9.3	
Bottom Packer Dopth 4583  Wt. Pipo Run Chlorides 9400 ppm System LCM 5  Blow Doscription  Week Surface (store)  NO reduce NO reduce NO reduce Rec Foet of Must Rec Foet of Systas %oil %water %mu Rec Foet of %gas %oil %water %mu Foet foet foet of %gas %oil %water %mu Foet foet of %gas %oil %water foet foet foet foet foet foet foet foet	_	the state of the s	370		15)	manual de la la la de Al-Al-Al-Al-Al-Al-Al-Al-Al-Al-Al-Al-Al-A
Total Depth   46.15   Chlorides   4700   ppm System   LCM			Ø		WL 120	
Blow Doscription Weak Surface Leads  No return.  No re		O'	100 1	opm System	LCM 5	
NO Teleman   No						
NO   16   17   17   18   18   18   18   18   18						
NO (Pellar):   Rec	•		, Y	A. A. A. A. A.	17 1 100 1 100 100	
Rec Foot of Much %gas %oil %water 123 %mu Rec Foot of %gas %oil %water %mu Rec Total I 20 BHT DC Gravity API RW @ F Chlorides pp (A) Initial Hydrostatic DJ Jars F Chlorides pp (B) First Initial Flow GC J Jars F Chlorides pp (C) First Final Flow GC J Jars F Chlorides pp (C) First Final Flow GC J Jars F Chlorides pp (C) Record Initial Flow GC J Jars F Chlorides pp (E) Second Initial Flow JC G Hourly Standby F Comments GC JC JC Gomments GC JC JC Gomments GC JC					Landa and the second of the se	
Rec			%gas	%oil	%water	WJ %muc
Rec Feet of Sequence	Rec Foot of		%gas	%oil	%water	%muc
Rec Feet of BHT DC Gravity API RW F Chlorides pp  (A) Initial Hydrostatic SUB Test 1250 F-On Location 3330  (B) First Initial Flow GU Safety Joint F-Open 2, 300  (C) First Final Flow GU Safety Joint F-Open 2, 300  (D) Initial Shut-In GU Safety Joint F-Out 8, 377  (E) Second Initial Flow 75 Hourly Standby Comments Auge Aug	RecFeet of		%gas	%oil	%water	%muc
Rec Total 120 BHT 100 Gravity APIRW @ F Chlorides pp  (A) Initial Hydrostatic 23.5 D  (B) First Initial Flow 50 D Jars FStarted 23.4 S  (C) First Final Flow 64 D Safety Joint F-Pulled 6.04  (D) Initial Shut-In 75 D Hourly Standby FOUT 8.5 7  (E) Second Initial Flow 84 Mileage 52 R/T 120 161.20 9.30 a.m. //////////////////////////////////	Rec Feet of		%gas	%oil	%water	%muc
(A) Initial Hydrostatic (B) First Initial Flow (C) First Final Flow (C) First Final Flow (D) Initial Shut-In (E) Second Initial Flow (F) Second Final Flow (G) Final Shut-In (H) Final Hydrostatic (E) Final Flow (F) Second	RecFeet of		%gas	%oil	%water	%muc
(B) First Initial Flow (C) First Final Flow (C) First Final Flow (D) Initial Shut-In (E) Second Initial Flow (E) Second Initial Flow (F) Second Final Flow	Rec Total 120 BHT 109	Gravity	API RW		( *)	- bbu
(C) First Final Flow 64 U Safety Joint F-Open 2, 30  (D) Initial Shut-In 1404 X Circ Sub 1/16  (E) Second Initial Flow 75 U Hourly Standby Comments (		Test1250_			- 1	<u>D</u>
(C) First Final Flow (D) Initial Shut-In (D) Initial Shut-In (E) Second Initial Flow (E) Second Initial Flow (F) Second Final Flow (	(B) First Initial Flow. 50	☐ Jars			1.20	<u> </u>
(D) Initial Shut-In	(C) First Final Flow 64	Safety Joint	<i>(</i>		1.011	
(E) Second Initial Flow  (F) Second Final Flow  (G) Final Shut-In  (H) Final Hydrostatic  (	(D) Initial Shut-In 404	Circ Sub			C/1- 7	
(F) Second Final Flow 87   Mileage 32 K/7 A3 161.20 9.30 a.m   Mil	(E) Second Initial Flow 75	☐ Hourly Standby				5.18 (a)
(G) Final Shut-In	(F) Second Final Flow	Mileage <u>52</u>	R/T Xd	161.20 %	30 am 1/13/	11
(H) Final Hydrostatic	(G) Final Shut-In	☐ Sampler			. /	
Initial Open	(H) Final Hydrostatic 2172	Cl Straddle				
Initial Shut-In 60 Extra Recorder Sub Total 800  Final Flow 62 Day Standby 1d 1.5h Total 2611.20  Final Shut-In 90 Accessibility 150 MP/DST Disc't  Sub Total 1811.20  Our Representative Our Representativ	-	Shale Packer	250	U R	uined Packer	
Final Flow	Initial OpenSO	☐ Extra Packer		D E:	ktra Copies	
Final Shul-In 90 Di Accessibility 150 MP/DST Disc't  Sub Total 1811.20  Our Representative Our Representative discussion of for any loss suffered or sustained, directly, through the use of it	Initial Shut-In 60	☐ Extra Recorder		Sub T	otal 800	
Approved By Our Representative Our Representative or for any loss suffered or sustained, directly, or indirectly, through the use of it	Final Flow 63	Day Standby	ld 1.5h	Total	2611.20	the first right shape or a sourceast replicate throughout the first the first
Approved By Our Representative Our Representative or for any loss suffered or sustained, directly, or indirectly, through the use of it	Final Shut-In 90	Accessibility	150	MP/Ç	ST Disc't	
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		y or personnel of the one for whom Is lost or damaged in the hole shall	a test is made, or for an I be paid for al cost by th	y loss suffered or sus se party for whom the	tained, directly or indirectly. I lest is made	through the use of its

# JAMES C. MUSGROVE

Petroleum Geologist 212 Main Street P.O. Box 215 Claflin, KS 67525

Res. Claflin (620) 587-3444

Office (620) 588-4250

SDOCO LLC Rees Ranch #2-19 E/2-NW-NW-NE (330' FNL & 2250' FEL) Section 19-19s-35w Wichita County, Kansas Page 1

# 5 1/2" Production Casing Set

Contractor:

H2 Drilling Co. (Rig #1)

Commenced:

January 5, 2013

Completed:

January 14, 2013

Elevation:

3192' K.B; 3190' D.F; 3181' G.L.

Casing program:

Surface; 8 5/8" @ 307' Production; 5 1/2" @ 5115'

Sample:

Samples saved and examined 3800' to the Rotary Total Depth.

**Drilling time:** 

One (1) foot drilling time recorded and kept 3800 ft. to the Rotary Total Deptin.

Measurements:

All depths measured from the Kelly Bushing.

**Drill Stem Tests:** 

There were four (4) Drill Stem Tests ran by Trilobite Testing Co.

Electric Log:

By Weatherford.

Formation	Log Depth	Sub-Sea Datum
Base Anhydrite	2363	+829
Heebner	3972	-780
Toronto	3994	-802
Lansing	4021	-829
Stark Shale	4326	-1134
Base Kansas City	4473	-1281
Marmaton	4508	-1316
Ft Scott	4630	-1438
Cherokee shale	4645	-1453
Johnson Zone	4742	-1550
Morrow Shale	4850	-1658
Mississippian	4953	-1761
Rotary Total Depth	5130	-1938
Log Total Depth	5136	-1944
(All tops and zones co	rrected to Electric Log	measurements).

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

## **TORONTO SECTION**

3994-4020'

Limestone; tan, buff, gray, fine and medium crystalline, dolomitic, poor visible porosity, slightly chalky, no shows.

# LANSING SECTION

4621-4030'	Limestone; white, cream, finely crystalline, few fossiliferous, few oolitic, poor visible porosity, no shows.
4030-4040'	Limestone; white, cream, finely oolitic, poor visible porosity,
	chalky, no shows.
4058-4076'	Limestone; white/cream, finely crystalline, few fossiliferous, poorly developed porosity, trace black stain, no show of free oil and no odor.
4080-4092'	Limestone; white, cream, finely crystalline, oolitic, poorly developed intercrystalline porosity, trace dark brown to black stain, no show of free oil and no odor.
4114-4136'	Limestone; white, cream, finely crystalline, oolitic, few fossiliferous, poor porosity, chalky, no shows.
4146-4161'	Limestone; cream, tan, finely crystalline, oolitic, poorly developed porosity, chalky, few cherty, no shows
4161-4200'	Limestone; white, cream and light gray, finely crystalline, few oolitic, granular, chalky increasingly cherty, no shows.
4200-4216'	Limestone; light gray, tan, finely crystalline, oolitic, poor visible porosity, no shows.
4240-4250'	Limestone; cream, tan, white, finely crystalline, oolitic, poor visible porosity no shows.
4270-4300'	Limestone; cream, tan, finely crystalline, few oolitic, chalky, no shows.
4306-4316'	Limestone; light gray, tan, cream, finely crystalline, oolitic, oomoldic, poor to fair oomoldic porosity, chalky, (barren).
4332-4340'	Limestone; cream, tan, light gray, oolitic, poor pinpoint porosity, spotty dark brown to black stain, show of free oil (dead) and faint odor in fresh samples.
4350-4360'	Limestone; tan, gray, oolitic, scattered porosity, dark brown to black stain, no show of free oil and no odor.
4360-4370'	Limestone; cream, tan, finely crystalline, poor visible porosity, slightly oolitic, chalky, no shows.
4384-4400'	Limestone; tan, gray, oolitic, scattered poor porosity, cherty, dark brown and black stain, no free oil and no odor.
4400-4410'	Limestone; cream, tan, finely crystalline, slightly oolitic, poor porosity, dark brown stain, no free oil and no odor.
4420-4430'	Limestone; cream, white, gray, slightly oolitic, poor to fair intercrystalline porosity, spotty dark brown stain, no free oil and no odor.

4446-4456'

Limestone; cream, tan, white, finely crystalline, chalky, scattered

dark brown to black stain, no free oil and no odor.

#### MARMATON SECTION

4508-4516'

Limestone; tan, buff, finely crystalline, oolitic, granular, poor to fair intercrystalline type porosity, dark brown stain, no free oil

and faint odor in fresh samples.

4518-4525'

Limestone; cream, tan, finely crystalline, oolitic, poor to fair porosity, golden brown stain, show of free oil and faint odor in fresh samples.

#### **Drill Stem Test #1**

4490-4525' (log measurements 4496-4531)

Times:

30-60-60-90

Blow:

Strong

Recovery:

940' gas in pipe

292' gassy oil

188' oil and gas cut mud (20% gas, 20% oil, 60% mud)

Pressures: ISIP

178

psi

**FSIP 213** IFP 24-125

psi psi psi

FFP 178-???

HSH 2384-2176 psi

4525-4538'

Limestone; cream, tan, finely oolitic, sub oomoldic, scattered porosity, golden brown stain, showoff free oil and faint odor in

fresh samples.

#### Drill Stem Test #2

4524-4538' (log measurements 4530-4544)

Times:

30-60-60-90

Blow:

Weak to strong

Recovery:

188' gas in pipe

168' clean gassy oil 114' oil and gas cut mud (20% gas, 20% oil, 60% mud)

94' slightly oil and cut muddy water (10% oil, 30% mud, 55% water)

Pressures: ISIP

998

psi

**FSIP 1015** 

**IFP** 33-65 psi psi

FFP 88-143 psi

HSH 2322-2196

psi

4550-4560'

Limestone; gray, white, finely crystalline, oolitic/fossiliferous. poor visible porosity, chalky, few cherty, dense, no shows.

4570-4590'

Limestone; cream, white, finely crystalline, poor porosity, few scattered fine vuggy porosity, black stain, no show of free oil and

no odor.

#### **PAWNEE SECTION**

4608-4621

Limestone; gray, white, finely crystalline, oolitic, poor pinpoint and intercrystalline porosity, golden brown stain, show of free oil and no odor in fresh samples.

#### Drill Stem Test #3

4583-4615' (log measurements 4589-4621)

Misrun – could not get to bottom

#### Drill Stem Test #4

4583-4615' (log measurements 4589-4621)

Times:

30-60-60-90

Blow:

Weak

Recovery:

120' mud

Pressures: ISIP 1404

psi

FSIP 1170 IFP 50-64

psi psi

FFP 75-84

psi

HSH 2418-2172

psi

#### **FT SCOTT SECTION**

4630-4644

Limestone; cream, tan, gray, finely crystalline, chalky, plus white, opaque chert at base.

# JOHNSON ZONE SECTION

4742-4761

Limestone; tan, gray, finely crystalline, poor porosity, cherty,

chalky, dense.

#### **MORROW SECTION**

4850-4953'

Shale; gray, black, slightly sandy, silty, no true sand

development.

#### MISSISSIPPIAN SECTION

4953-4970' Limestone; cream, white, sandy, granular, poorly developed

porosity (barren).

4970-5000'

Limestone; as above, plus tan/white and gray boney chert.

5000-5020'

Limestone; and chert as above.

5020-5040'

Limestone; white, cream, finely crystalline, chalky, poor porosity.

5040-5060'

Limestone; cream, tan, white, finely crystalline, slightly oolitic,

poor visible porosity, no shows.

5060-5090'

Limestone; as above, trace chert.

5090-5136'

Limestone; as above, no shows.

Rotary Total Depth

5130

Log Total Depth

5136

## Recommendations:

 $5~\ensuremath{\ensuremath{\,\%^{\prime\prime}}}$  production casing was set and cemented on the Rees Ranch #2-19

Respectfully submitted;

Kurt Talbott,

Petroleum Geologist

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Sam Brownback, Governor

Mark Sievers, Chairman Thomas E. Wright, Commissioner Shari Feist Albrecht, Commissioner

May 01, 2013

J. Robert Tuck SDOCO, LLC PO BOX 369 LITTLETON, CO 80160

Re: ACO1 API 15-203-20203-00-00 Rees Ranch 2-19 NE/4 Sec.19-19S-35W Wichita County, Kansas

## **Dear Production Department:**

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, J. Robert Tuck



TICKET NUMBER LOCATION ON Pley FOREMAN TUZZY

## FIELD TICKET & TREATMENT REPORT

	or 800-467-8676		CEMEN	IT	ORT	122114 6	145
DATE	CUSTOMER#	WELL NAME & NU		SECTION	TOWNSHIP	RANGE	COUNTY
1-14-13	7/483	Rees Ranch	2-19	19	195	35w	wichida
CUSTOMER			marienth	TRUCK!			
AAILING ADDRE	ca LLC		65	TRUCK#	DRIVER	TRUCK#	DRIVER
				399	DAMONM		
	0x 369	303-979-400	19 6	460	JORY K		
CITY		ATE ZIP CODE		530	Jordanh		
Lettleton		01 80160		528	Chris B		
OB TYPE 2	splace HO	DLE SIZE 776		45130'	CASING SIZE & W	/EIGHT <u>5 ^^</u> ス	15,5
	5114 82 DR		TUBING			OTHER Do T	00/ @ 270
LURRY WEIGH	17.19.2-12.5sL	URRY VOL 1.42 - 1.5	WATER gal/s	sk	CEMENT LEFT in	CASING 20	
		SPLACEMENT PSI	MIX PSI		RATE		
		son Hatt					
6,17,18	,20,22,24	1,26,28 BASK	564 BO4.	#57 DU	100 TODA	57, R.	00
and ens	culade 111.	Zhes Richiel	e do un	-ciclate	5/12 has.	Pumps	PAL.
water.	500= 41 mu	d Sligh, 5 BAR	askan.	m'17 40051	s owe w	5* Kolise	al, wash
Aum b a	nd lines Di	op plus and de	splace 60	bals und	× 603/4 1	58hs muel	1700
		100 to Diap DI					
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75041:	C+ Close	DU Toole 17	PO COM	and de	o puly 21	DOVEY S	OFELETOR
ement Bl	so elicolador	d whose by to	plan Bay	land Than	KS FUZZ4	terew	
ACCOUNT	QUANITY or		DESCRIPTION OF SERVICES OF PRODUCT			UNIT PRICE	TOTAL
CODE	3		DESCRIPTION OF SERVICES OF PRODUCT				00
54016	115	PUMP CHAI	RGE			302000	3020
5406	45			Т		500	225 0
SHOTA		5 ton Ton V	nilease 1	Alrosty.		167	3194 10.
1126	4005					2255	9020-
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1131	5 54	05K5 60140	2 205			1510	830500
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11446	500 5	and the second of the second o	Flush			100	, 00
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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.