

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1155394

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:			Sec	TwpS. R	East West
Address 2:			F6	eet from North /	South Line of Section
City:	State: Z	ip:+	Fe	eet from East /	West Line of Section
Contact Person:			Footages Calculated from I	Nearest Outside Section C	Corner:
Phone: ()			□ NE □ NW	V □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:	W	/ell #:
	e-Entry	Workover	Field Name:		
	_		Producing Formation:		
☐ Oil ☐ WSW ☐ D&A	☐ SWD	∐ SIOW □ SIGW	Elevation: Ground:	Kelly Bushing:	:
	GSW	Temp. Abd.	Total Vertical Depth:	Plug Back Total C	Depth:
CM (Coal Bed Methane)	dow	Temp. Abd.	Amount of Surface Pipe Se	et and Cemented at:	Feet
☐ Cathodic ☐ Other (Co	ore, Expl., etc.):		Multiple Stage Cementing	Collar Used? Yes	No
If Workover/Re-entry: Old Well I			If yes, show depth set:		Feet
Operator:			If Alternate II completion, c	cement circulated from:	
Well Name:			feet depth to:	w/	sx cmt.
Original Comp. Date:					
Deepening Re-perf	•	NHR Conv. to SWD	Drilling Fluid Managemer	nt Plan	
☐ Plug Back	Conv. to G		(Data must be collected from the		
Commingled	Pormit #:		Chloride content:	ppm Fluid volume	e: bbls
Dual Completion			Dewatering method used: _		
SWD			Location of fluid disposal if	hauled offsite	
☐ ENHR			1		
GSW	Permit #:		Operator Name:		
_ _			Lease Name:	License #:_	
Spud Date or Date R	eached TD	Completion Date or	Quarter Sec	TwpS. R	East _ West
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 \square	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	I 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 6-19
Doc ID	1155394

Tops

Name	Тор	Datum
Base Anhydrite	2349	+834
Heebner	3952	-769
Toronto	3976	-793
Lansing	4005	-822
Muncie creek	4204	-1021
Stark Shale	4309	-1128
Hushpuckney	4361	-1178
Base Kansas City	4456	-1273
Marmaton	4489	-1306
Pawnee	4550	-1367
Ft Scott	4609	-1426
Cherokee Shale	4623	-1440
Morrow	4840	-1657
Mississippisn	2928	-1745

ALLIED OIL & GAS SERVICES, LLC 060322

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092				SERV	CE POINT:	y
6/28/13 SEC. 19 TWP. R	ANGE 35	CALLED OUT	ON LOCATI	ION	JOB START 5:15 Am	JOB FINISH 5:45 Am
		ienthal 6	5 ,3/111		Wichita	STATE
OLD OR NEW (Circle one)	5into	ienthat co) · 74W	i	Wienita	_ A3.
	SINTO				J	
CONTRACTOR #2 #/		OWNER &	Same			
TYPEOFJOB Surface	1	_				128
HOLE SIZE 12/4 T.D. CASING SIZE 8 1/8 DEPTI	354	CEMENT			.6 1	***
TUBING SIZE DEPTI	1 352.71	_ amount of	RDERED <u>2</u>	15 2	Ks Com	3% CC_
DRILL PIPE DEPTI		_ 210.01		T'		
TOOL DEPTI					-	
PRES. MAX MININ	<u>IUM</u>	_ COMMON_	215 51	43	@17,90	384850
MEAS. LINE SHOE	JOINT	POZMIX _			@	
CEMENT LEFT IN CSG. 20		_ GEL _	4/5/		@ 23,40	
PERFS. DISPLACEMENT 21.29		_ CHLORIDE	8 SK	5	6 64,93	5/2,00
EQUIPMENT		_ ASC			_@ @	
EQUINIENT					@	
PUMPTRUCK CEMENTER LAue	Parell	<u></u>			@	
	eaver	_			@	
BULK TRUCK	euner				@	-
# 347 DRIVER Kewin K	ian				.@	
BULK TRUCK				-	@	
# DRIVER		- HANDLING	22248	CEN	@ \$248	\$ 671 55
		MILEAGE _				\$ 1722 67
REMARKS:						6793.31
Mix 215 5Ks Cement					IOIAL	<u>@113.=</u>
Displace with water			SE	RVIO	TE.	
Cement Diel Circulate	Ø					
		_ DEPTH OF JO		71		
	-	_ PUMPTRUC				1512,25
		EXTRA FOO			@ - 70	N a PA
Than	K Hou.	_ MILEAGE_	23 1		@ 7.70	500,50
		- MANIFOLD		<u> </u>	@ 4,40	2/5 ==
0					@	206.
CHARGE TO: SNOCO. UC						
STREET					TOTAL	2573.75
CITYSTATE	ZIP	=0	PI UC & DI	OAT	EQUIPMEN'	r.
			atherfore		EQUITMEN	1
		3-Centra	atherfore	2/	# FD	\$ 10.160
		J-Centra.	nzers	-	@ 74.05	224.
To: Allied Oil & Gas Services, LLC.					@	
You are hereby requested to rent cement	ling equipment				@	
and furnish cementer and helper(s) to as	sist owner or				@	
contractor to do work as is listed. The a	bove work was					
lone to satisfaction and supervision of o	wner agent or				TOTAL	224.64
ontractor. I have read and understand t	he "GENERAL	041 00 001 ==	• c i			850
TERMS AND CONDITIONS" listed on	the reverse side		. 0	_	11	
	ko .	TOTAL CHAR	RGES	20,	1470	
RINTED NAME OYY	dy	DISCOUNT_	2.3	100	B9112 DATE	IN 30 DAYS
1. 1	11	- 2.0000111 _				
IGNATURE /// d) any	ha		1.3	62	60 Net	
W		- 11 11 11 11				

ALLIED OIL & GAS SERVICES, LLC 060731 Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092		SERV	ACE POINT.
	ALLED OUT O	N LOCATION	JOB START AN JOB FINISH PM
Rees Ranch WELL# 6-19 LOCATION MASS	. 11 . 3	. 31	
OF D OBATEM (C. 1	ienthal 6:	5-9/460	Wichita Ko.
Sinte)		
CONTRACTOR H2	OWNER San	0.4	-
TYPE OF JOB Production 2 Stage Top	OWNER SEEL	ve .	
HOLESIZE 7/8 T.D. 5255	CEMENT		
CASING SIZE 5/2 DEPTH 4683,63	AMOUNT ORDER	RED SON	sks Lite 5 Gilsoni
TUBING SIZE DEPTH DRILL PIPE DEPTH	14 Flosed	6/22	
TOOL DV DEPTH 2874, 37	. ————		
PRES. MAX MINIMUM	gova ve v		
MEAS, LINE SHOE JOINT	COMMON		@
CEMENT LEFT IN CSG.	POZMIX		@
PERFS.	CHLORIDE		
DISPLACEMENT 68.41	ASC,		@
EQUIPMENT	Lite .	500 5Ks	@ 1595 7975.00
PUMPTRUCK CEMENTER Davien Racettes	Gilsonite	2500	@ 98 9 2450,0°
120 +431 HELPER Tyler Fliose Wash	of/oseal		@
BULK TRUCK	5F/05ea1	125"	@ 2.77 \$ 371,25
1566.58 DRIVER Jawid Scauerna			@
BULK TRUCK			@
1373-308 DRIVER DT Gray	HANDLING 615	.66 Cf X	@ 2 18 1526 84
	MILEAGE 245	3 X 65 X	\$2.6084145 57
REMARKS:			TOTAE 16468.66
Plug mousehole 15 SKS Cement			101110 100,1
This Kathole 30 SKS Coment		SERVIC	CIE
mry 455 SKs en Casing			
Orighton with water	DEPTH OF JOB	2874.3	
Flort Hold Coment Did Circulate	PUMPTRUCK CH		12406,25
Jac Into Charles Dia Chicago	EXTRA FOOTAGE MILEAGE		@
	The second secon		@
Thank year.	MANIFOLD		@
45			@
CHARGE TO: SDOCO LLC.			
TREET			TOTAL 2406.25
TREET			
'ITYSTATEZIP	PLU	G & FLOAT	EQUIPMENT
			@
			@
'o: Allied Oil & Gas Services, LLC.		- 	@
ou are hereby requested to rent cementing equipment			@
nd furnish cementer and helper(s) to assist owner or			@
ontractor to do work as is listed. The above work was			(FORM)
one to satisfaction and supervision of owner agent or			TOTAL
ontractor. I have read and understand the "GENERAL	SALES TAX (If Ar	ועו	
ERMS AND CONDITIONS" listed on the reverse side.			1/1 91
6 21/101	TOTAL CHARGE	5_10,0	
RINTED NAME GOVY AS	DISCOUNT	4,341.22	IF PAID IN 30 DAYS
111 4 1		14537	3.68 Net.
GNATURE AND WE WE		11100	J. GU 11

5 1/2" Production Casing Set

H2 Drilling Co. (Rig #1) Contractor:

May 6, 2013 Commenced:

May 15, 2013 Completed:

Elevation:

3183, K'B; 3181, D'E; 3172, G.L.

Production; 5 1/2" @ 3180' 2nusce; 8 5/8" @ 350' Casing program:

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

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

Depth.

All depths measured from the Kelly Bushing. Measurements:

There were two (2) Drill Stem Tests ran by Trilobite Testing Co. Drill Stem Tests:

Photo Density Compensated Meutron Log, Micro Log and Sonic Log. By Weatherford; Array Induction Shallow Focused Electric Log, Compact Electric Log:

sasurements).	orrected to Electric Log me	o senoz bns aqot IIA)
1702-	225 4	Log Total Depth
4902-	2250	Rotary Total Depth
8941-	196 1	nsiqqississiM
9991-	8484	Morrow Shale
7 991-	787 <i>Þ</i>	Johnson Zone
9971-	8797	Cherokee Shale
8141-	l09₽	Ft Scott
27£1-	1 222	Pawnee
-1309	7677	Marmaton
-1253	7944	Base Kansas City
-1193	9754	Hush Puckney
2 1 1142	4325	Stark Shale
1601-	4214	Muncie Creek
828-	1104	Lansing
008-	3983	Toronto
6 7 7-	3962	Heebner
+836	7452	Base Anhydrite
Sub-Sea Datum	Log Depth	Formation

Limestone; tan, cream, finely crystalline, oolitic, chalky, poor visible porosity, light brown spotty stain, no show of free oil and no odor in fresh samples.	4463-4466
NO	MARMATON SECTION
Limestone; cream, tan, finely oolitic, chalky, poorly developed, trace brown stain, no free oil and no odor.	,7977-1777
Limestone; tan, finely crystalline, few fossiliferous, poor pinpoint porosity, trace light brown stain, no free oil and no odor.	4380-4410,
Limestone; tan, brown, finely crystalline, slightly cherty, poor porosity, no shows.	4320-4370
Limestone; cream, tan, oolitic, oomoldic, poorly developed oomoldic porosity, no shows.	4335-4340,
Limestone; tan, oolitic, oomoldic, fair oomoldic porosity, trace spotty stain, no show of free oil and no odor.	4300-4314,
Limestone; tan, brown finely crystalline, fossiliferous, slightly cherty, no shows.	, 4575-4292
Limestone; cream, tan, finely crystalline, poor scattered porosity, trace spotty brown stain, no free oil and no odor.	4260-4274
Limestone; cream, tan, buff, finely crystalline, oolitic, few oomoldic.	4229-4231,
Limestone; cream, white, finely crystalline, oolitic, poor intercrystalline porosity, trace black stain, no free oil and questionable odor in fresh samples.	4140-4160
Limestone; tan, cream, finely crystalline, few fossiliferous, poorly developed porosity, trace light brown stain, no show of free oil and no odor.	d106-4130,
Limestone; cream, finely crystalline, chalky, poor visible porosity, no shows.	ط900 - ط900،
Limestone; cream, gray, finely crystalline, fossiliferous, poor porosity, trace stain, no free oil and no odor.	4043-4047
Limestone; cream, tan, finely crystalline, poor visible porosity, cherty, questionable stain, no free oil and no odor in fresh samples.	4506-4036
Limestone; tan, buff, finely crystalline, few oolitic, fossiliferous, chalky, no shows.	4016-4021

Limestone; as above.

4206-4520

4484-4236 L# 1891 Wate IIII

30-30-30-45

Blow:

:səwiI

Weak

Recovery: g, mnq

239 Pressures: ISIP

isq 27-40 I_Fb isq 304 FSIP isd

isq H2H 5332-5543 isq 22-88 FFP

4222-4285,

porosity, cherty, questionable stain. Limestone; tan, cream, oolitic, finely crystalline, poor visible

FT SCOTT SECTION

PAWNE SECTION

4601-4610

visible porosity, trace light brown stain, no free oil and no odor in Limestone; tan, brown, finely crystalline, oolitic, cherty, poor

fresh samples.

Limestone; brown, finely crystalline, fossiliferous, poor visible

4630-46369

porosity, questionable stain, no free oil and no odor.

CHEROKEE SECTION

4643,4656

porosity, chalky, trace stain, show of free oil and faint odor in Limestone; tan, cream, finely crystalline, oolitic, poor pinpoint

4940-4929

tresh samples.

Drill Stem Test #2

:səmiT

30-30-30-30

Weak Blow:

g, mnd Recovery:

isq 28-30 **IFP** isq **ESIP 134** isq 07 Pressures: ISIP

isq 9612-0622 HSH isq 28-28 FFP

JOHNSON ZONE SECTION

brown stain, no show of free oil and questionable odor in fresh Limestone; brown, finely crystalline, fossiliferous, trace poor light

4737-4757

MISSISSINIAN SECTION

	ry Total Depth Total Depth	4820
١	2502-2520،	Dolomite and limestone; as above, no shows.
	2182-2502,	Limestone; tan, fine, dense, plus gray, tan, sucrosic, dolomitic, and dolomite limestone.
	2110-5185	Limestone; tan, cream, finely crystalline, dolomitic, no shows.
	0219-0719	Limestone; as above, trace sand, very fine grained, white, scattered porosity, no shows.
	2100-2140	Limestone; tan, oolitic, finely crystalline, poor intercrystalline porosity, scattered black and green shale.
	2080-2100،	Limestone; cream, tan, finely crystalline, chalky, few cherty, no shows.
	2040-2080	Limestone; tan, cream, finely crystalline, chalky, poor visible porosity, no shows.
	2000-2040،	Limestone, white, cream and tan, chalky, trace sand, white, very fine grained, no shows.
	√651-5000،	Limestone; as above, sandy in part.
	,126 1 -196 1	Limestone; cream, white, finely crystalline, poor intercrystalline type porosity, no shows.

Recommendations:

5 % disposal casing was set and cemented, for use as a shallow disposal well.

Respectfully submitted;

Wyatt Urban, Petroleum Geologist 2013.07.02

Marmaton

DST#1

Rees Ranch #6-19



DRILL STEM TEST REPORT

Prepared For: SDOCO

Littleton, CO 80160 PO Box 369

ATTN: Kurt Talbott

Rees Ranch #6-19

19-19s-35w Wichita,KS

2013.07.03 @ 03:17:03 End Date: Start Date: 2013.07.02 @ 20:25:09

DST#: 1 Job Ticket #: 49219

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

DRILL STEM TEST REPORT

Rees Ranch #6-19 19-19s-35w Wichita, KS

:oM finU

Tester:

Test Type:

Time Off Btm:

Time On Btm:

Last Calib.:

Capacity:

50:71:50

2013.07.03

Job Ticket: 49219

SDOCO

Littleton, CO 80160 PO Box 369

ATTN: Kurt Talbott

:emiT bri3

End Date:

4481.00 ft (KB)

ft (KB)

ESTING, INC



GENERAL INFORMATION:

:Mhipstock: ON Marmaton

Deviated: Formation:

Time Tool Opened: 23:11:04

Time Test Ended: 03:17:03

Total Depth: 4480.00 ft (KB) To 4508.00 ft (KB) (TVD) Interval:

7.88 inchesHole Condition: Fair 4508.00 ft (KB) (TVD)

Serial #: 8368 Outside

@ gisq f 6.86 Press@RunDepth:

50:52:02 20.70.6102

No return wold oM

> Start Time: Start Date:

Hole Diameter:

No return LEST COMMENT: Weak blow died in 3 min.

(Min.) (psig) (deg f) (min.) (psig) (min.) (psig) (deg f) (min.) (psig) (deg f) (min.) (psig) (deg f) (min.) (psig) (deg f) (d					10.0	w%00	ı pnu (
(f) wold of neight of neighbors and neighbors of neighbo	iches) Pressure (psig) Gas Rate (Mcf/	Ti) sylvy			Volume (bbl)	Description	(អូ) ហុជ
(1) wol of	Rates	Gas				Recovery	
(1) wolf of nitial Hydro-static (1) (2) (2) (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4					PINE	be-W C (zmoH) seraT	El Walls
(1) wolf of mittini Hydro-static or filtini Hydro-stat						mere glanepe	
(f) wol of or					α-		1
Company Comp					ω- 1 <u>1</u>		1
(1) wolf of med of molecular (1) wolf of mol			2235.94	125	08		1
(f) wolf of nitial Hydro-static (f) egb) (gisq) (nilM) (rill signal Hydro-static (f) wolf of nitial hydro-static (f) wolf of n	(S)nl-tudS bn∃	94.411	10.23	124	g ss - 1	- -i -i	£
(f) wolf of nitial Hydro-static (f) egb) (gisq) (nilM) (rill signal Hydro-static (f) wolf of nitial hydro-static (f) wolf of n		31.411	16.98	06	10 to		
(1 geb) (gisq) (.niM) (2 geb) (bisq) (.niM) (2 geb) (gisq) (.niM) (2 geb) (gisq) (.niM) (2 geb) (2 geb) (2 geb) (3 geb	Open To Flow (2)	19.511	38.75	19			
(f) wold of Topen (hitial Hydro-static (hitial Hydr	End Shut-In(1)	113.92	71.88	09	" 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
(Min.) (psig) (psig) (min.) (m	Shut-In(1)	19.611	38.95	15			/ x
(Min.) (psig) (deg F)	Open To Flow (1)	112.67	69.98	l	sa - 13		
(7 geb) (gizq) (.niM) ***	Initial Hydro-static		2345.24	0	ar -		
			A STATE OF STATE OF STATE OF	1 100	E	7	
noitstonnA qmeT ansessay amiT are some analysis and are some analy	noitstonnA	dməT			TE I	L SOCIO	PLI 2012

2013.07.03 @ 01:15:34

2013.07.02 @ 23:10:49

KB FO CENCE:

99

Shane McBride

Test Start: 2013.07.02 @ 20:25:09

Reference Bevations:

2013.07.03

Conventional Bottom Hole (Initial)

DST#: 1

gizq 00.0008

11.00.11

3172.00 ft (CF)

3183.00 ft (KB)

SDOCO DRILL STEM TEST REPORT

ESTING, INC

Rees Ranch #6-19 29-19s-35w Wichita, KS

Test Start: 2013.07.02 @ 20:25:09

KB P GRICE:

Shane McBride

Test Type: Conventional Bottom Hole (Initial)

Reference Bevations:

:oM finU

:Tester:

2013.07.03

gizq 00.0008

ff 00.11

1:#TSO

3172.00 ft (CF)

3183.00 ft (KB)

Job Ticket: 49219

Time Off Btm: Time On Btm:

Last Calib.:

Capacity:

91:71:60

2013.07.03

Littleton, CO 80160 PO Box 369

:emiT bn∃

End Date:

4481.00 ft (KB)

ft (KB)

ATTN: Kurt Talbott

GENERAL INFORMATION:

Whipstock: Marmaton

Time Test Ended: 03:17:03 Time Tool Opened: 23:11:04

Total Depth: 4480.00 ft (KB) To 4508.00 ft (KB) (TVD) interval:

7.88 inchesHole Condition: Fair 4508.00 ft (KB) (TVD)

abienl Serial #: 6667

@ bisq Press@RunDepth:

20.70.6102

20:25:30

Start Time: Start Date:

Hole Diameter:

Deviated:

Formation:

Wold oN No return TEST COMMENT: Weak blow died in 3 min.

No return

10.0 m%001 bum 3.00 Gas Rate (Mct/d) Choke (inches) Pressure (psig) (ldd) emuloV Description Length (ft) Gas Rates Recovery (4 geb) (bisd) (.niM) Annotation Temp Pressure **-**miT Egerfi V000 PRESSURE SUMMARY Pressure vs. Time

TOOL DIAGRAM

F:#T&G

DRILL STEM TEST REPORT

SDOCO

E ZLING	Thirting of the second
TIBOJIR]	

61-9#	Кее з Капсһ
Vichita, KS	19-19s-35w M

Test Start: 2013.07.02 @ 20:25:09

Job Ticket: 49219

Littleton, CO 80160 PO Box 369

ATTN: Kurt Talbott

noitemnoful	100

		6.75 inches	Diameter:	2	Number of Packers:
				ff 00.84	Tool Length:
				Jł 00.8S	Interval betw een Packers:
dl 00.0000√ lsni∃				11	Depth to Bottom Packer:
String Weight: Initial 70000.00 lb				J1 00.0844	Depth to Top Packer:
Tool Chased 0.00 ft	1dd 88.68	Total Volume:		30.00 ft	Drill Pipe Above KB:
Weight to Pull Loose: 85000.00 lb	Idd E8.1	2.25 inches Volume:	Diameter:	373.00 ft	Drill Collar: Length:
Weight set on Packer: 25000.00 lb	0.00 bbl	0.00 inches Volume:	Diameter:	JJ 00.0	Heavy Wt. Pipe: Length:
Tool Weight: 1500.00 Ib	Idd 27.73	3.80 inches Volume:	Diameter:	#117.00 ft	Drill Pipe: Length:
					Tool Information

Tool Comments:

	Accum. Lengths	Depth (ft)	Position	Serial No.	(ֈֈ) պյճսթ	ription	
		4461.00			00.1		Change Ov
		00.9944			00.3	5907	Shut In Tool
		00.174A			00.3	lo	Hydraulic to
Bottom Of Top Packer	20.00	00.9744			9.00		Packer
10/10% I do L 10 Honos		4480.00			00.₽		Packer
		4481.00			00.1		Stubb
		00.1844	əbiznl	4999	00.0		Recorder
		00.1844	əbistuO	8368	00.0		Recorder
		4503.00			22.00		Perforations
Boftom Packers & Anchor	28.00	4508.00			9.00		Bullnose
					48.00	Total Tool Length:	

FLUID SUMMARY

mqq 0

PA geb 0

DRILL STEM TEST REPORT

SDOCO



19-19s-35w Wichita, KS

Rees Ranch #6-19

DST#: 1 Job Ticket: 49219

Water Salinity:

:PA IiO

Test Start: 2013.07.02 @ 20:25:09

Littleton, CO 80160 PO Box 369

ATTN: Kurt Talbott

Mud and Cushion Information

m.mdo 00.0 Resistivity: Water Loss: ⁸ni 81.7 Viscosity: 53.00 sec/qt 9.00 lb/gal :JdgieVV bulVI Mud Type: Gel Chem

1.00 inches mqq 00.0004

Recovery Information

Filter Cake:

Salinity:

Recovery Table

Total Volume:

G10.0	m%001 bum	3.00
Volume ldd	Description	dłgned fł

Gas Cushion Pressure:

Gas Cushion Type:

Cushion Volume:

Cushion Length:

Cushion Type:

1dd 210.0

bisq

Iqq

Ħ

Serial #:

Laboratory Location: Num Gas Bombs:

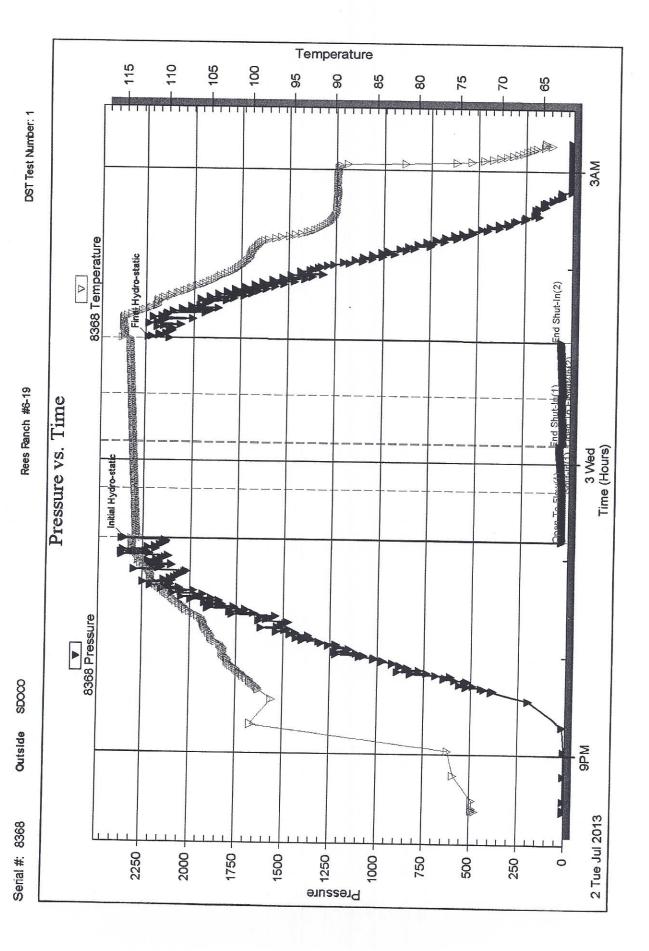
3.00 ft

Total Length:

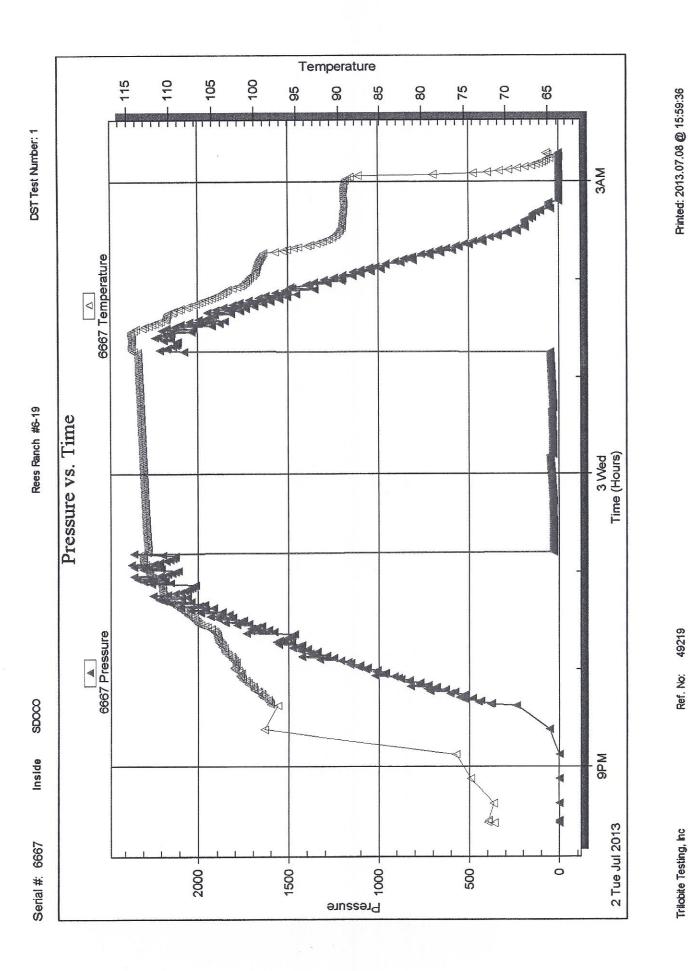
Laboratory Name: Num Fluid Samples: 0

Recovery Comments:





Ref. No: 49219



Ref. No: 49219

Trilobite Testing, Inc

2013.07.03

marmaton

DST#2

Rees Ranch #6-19



DRILL STEM TEST REPORT

Prepared For: SDOCO

Littleton, CO 80160 PO Box 369

ATTN: Kurt Talbott

Rees Ranch #6-19

29s-35w Wichita, KS

2013.07.03 @ 16:51:48 End Date: 5tart Date: 2013.07.03 @ 09:20.54

DST#: 2 Job Ticket #: 49220

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

Reference Bevations: Time Test Ended: 16:51:48 :oM finU Time Tool Opened: 11:47:04 Tester: ft (KB) Whipstock: ON :beviated: Test Type: Conventional Bottom Hole (Reset) marmaton Formation: GENERAL INFORMATION: ATTN: Kurt Talbott Test Start: 2013.07.03 @ 09:20:54 Job Ticket: 49220 Littleton, CO 80160 PO Box 369 Rees Ranch #6-19 ESTING, INC. 19-19s-35w Wichita, KS SDOCO DRILL STEM TEST REPORT

7.88 inchesHole Condition: Fair

4504.00 ft (KB) To 4520.00 ft (KB) (TVD)

4520.00 ft (KB) (TVD)

No blow , flush tool after 15 min. good surge, no blow

No return

Hole Diameter:

Total Depth:

Interval:

No return TEST COMMENT: 1/8" blow 2013.07.03 @ 14:49:04 Time Off Btm: Start Time: **1**9:07:60 2013.07.03 @ 11:46:34 Time On Btm: 16:51:48 :emiT bn3 Start Date: 2013.07.03 2013.07.03 Last Calib.: 2013.07.03 End Date: Press@RunDepth: @ gizq 87.84 Capacity: 4505.00 ft (KB) gizq 00.0008 Serial #: 8368 Outside

					_
nches) Pressure (psig) Gas Rate (Mct/d)	Choke (in			Length (ft) Description Volume (bbl) 0.10 m%36 0%5 moosv 00.00	\neg
S Rate (Mottd) Gas Rate (Mottd)				Кесолегу	
E SUMMARY Annotation Initial Hydro-static Open To Flow (1) End Shut-In(1) Open To Flow (2) Shut-In(2) End Shut-In(2) Frinal Hydro-static	qməT (3 gəb) 00.011 71.601 76.011 11.511 00.511 81.511	Pressure (psig) 2353.76 33.44 33.44 33.44 38.40 48.78 23.46 22.43.88	əmiT 0 (.niM) 1 9 9 19 19 18 28 183	00	

00.11

3172.00 ft (CF)

3183.00 ft (KB)

DST#:2

KB P GRICE:

Shane McBride

Recovery 08 05 005 (deg F) (bisq) (.niM) Annotation Temp Pressure əmiT PRESSURE SUMMARY EBST⁹ VOO Pressure vs. Time No return No blow , flush tool after 15 min. good surge, no blow No return TEST COMMENT: 1/8" blow Time Off Btm: :mta no emiT 16:51:03 End Time: 81:02:60 2013.07.03 Start Time: Last Calib.: 2013.07.03 End Date: 2013.07.03 gizq 00.0008 Start Date: Capacity: 4505.00 ft (KB) @ bisd Press@RunDepth: apisul Serial #: 6667 ff 00.11 KB to CE/CE: 7.88 inchesHole Condition: Fair Hole Diameter: 3172.00 ft (CF) 4520.00 ft (KB) (TVD) Total Depth: 3183.00 ft (KB) Reference Bevations: 4504.00 ft (KB) To 4520.00 ft (KB) (TVD) Interval: :oN finU 84:15:31 :bebn∃ tesT emiT Shane McBride Tester: Time Tool Opened: 11:47:04 Conventional Bottom Hole (Reset) Test Type: ft (KB) Whipstock: ON Deviated: m arm aton Formation: GENERAL INFORMATION: Test Start: 2013.07.03 @ 09:20:54 ATTN: Kurt Talbott DST#:2 Job Ticket: 49220 Littleton, CO 80160 Rees Ranch #6-19 PO Box 369 ESTING, INC 19-19s-35w Wichita, KS SDOCO DRILL STEM TEST REPORT

Ref. No: 49220

01.0

(ldd) emuloV

* Recovery from multiple tests Trilobite Testing, Inc

20.00

Length (ft)

m%26 0%5 moosv

Description

Printed: 2013.07.08 @ 15:58:55

Pressure (psig)

Choke (inches)

Gas Rates

Gas Rate (Mct/d)

TOOL DIAGRAM

DRILL STEM TEST REPORT

SDOCO

ESTING, INC



DST#: 2 Job Ticket: 49220 Rees Ranch #6-19

19-19s-35w Wichita, KS

Test Start: 2013.07.03 @ 09:20:54

Littleton, CO 80160 PO Box 369

ATTN: Kurt Talbott

Tool Information

Depth to Bottom Packer: Ħ dl 00.00007 Isni7 11 00.4024 Depth to Top Packer: String Weight: Initial 70000.00 lb ff 00.8 Drill Pipe Above KB: ff 00.0 Tool Chased ldd 82.93 Total Volume: Weight to Pull Loose: 85000.00 lb 1.83 bbl 2.25 inches Volume: 373.00 ft Diameter: rength: Drill Collar: Weight set on Packer: 25000.00 lb 1dd 00.0 0.00 inches Volume: Heavy Wt. Pipe: Length: 0.00 ft Diameter: dl 00.0021 Tool Weight: 1dd 27.73 3.80 inches Volume: Length: 4117.00 ft Diameter: Drill Pipe:

6.75 inches

2 Diameter: Number of Packers: Tool Length:

Interval between Packers: 16.00 ft

36.00 ft

Tool Comments:

					36.00	Total Tool Length:	
Bottom Packers & Anchor	00.81	4620.00			9.00		Bullnose
		4515.00			10.00		Perforations
		4205.00	əbistuO	8368	00.0		Recorder
		4605.00	əbiznl	∠999	00.0		Recorder
		4605.00			00.1		ddufS
		4504.00			00.₽		Packer
Bottom Of Top Packer	20.00	4200.00			00.3		Packer
		00.3644			00.3		Hydraulic tool
		4490.00			00.3		Shut In Tool
		4485.00			_00.f	qng	Change Over 5
	Accum. Lengths	Depth (ft)	Position	Serial No.	(դ) Կյնսə	J noið	Tool Descrip

FLUID SUMMARY

DST#:2

mqq 0

MA geb 0

DRILL STEM TEST REPORT

SDOCO

ESTING, INC



WICHITA, KS	MGC-SEL-EI

Water Salinity:

:MAIIO

Test Start: 2013.07.03 @ 09:20:54

Job Ticket: 49220 Rees Ranch #6-19

Serial #:

gisq

ldd

Ħ

Littleton, CO 80160 PO Box 369

ATTN: Kurt Talbott

Mud and Cushion Information

50.00 sec/qt 9.00 lb/gal Mud Type: Gel Chem

Resistivity: Water Loss: Viscosity: Mud Weight:

1.00 inches mqq 00.0023 т.т.по 00.0

^eni TT.8

Fiffer Cake: Salinity:

Recovery Information

Recovery Table

	144 860 0	Total Volume:	ff 00.	20	Total Length:
860.0		m%96 0%91	Naocm	20.00	
əmuloV Idd		Description		ц	gned II

Gas Cushion Pressure:

Gas Cushion Type:

Cushion Volume:

Cushion Length:

Cushion Type:

Idd 860.0

Num Gas Bombs: Total Volume:

Laboratory Location:

£0.00 ft

Laboratory Name: Num Fluid Samples: 0

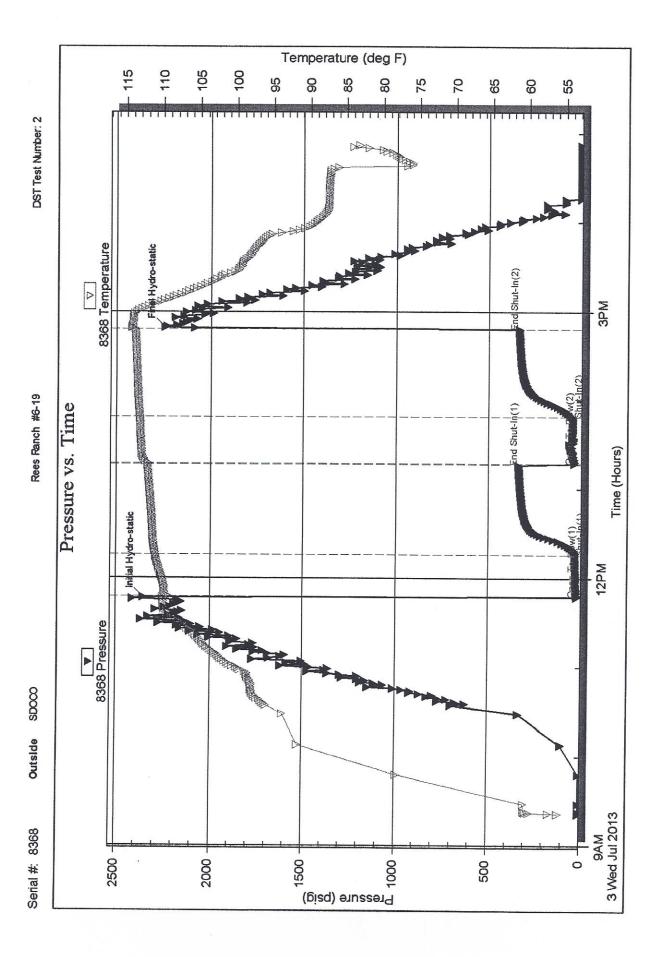
Recovery Comments:

Tinted: 2013.07.08 @ 15:58:57

Ref. No: 49220

Trilobite Testing, Inc





Ref. No: 49220

Trilobite Testing, Inc

Ref. No: 49220

InioL yiels D T-Open (C) First Final Flow T-Started D Jars (8) First Initial Flow ISOT A 1-On Location /9:20 1250 (A) Initial Hydrostatic wdd F Chlorides WA IGA Gravity TH8 Rec Total рпш% Jelew% 10% %das Feet of Rec рпш% %water 110% %das Feet of Rec рпш% %waler 110% %वेडड Tebt of Rec pnu% %Maler 110% %वेश्वड Febt of Эен %water pnu%00/ 110% seb% Febi of 777 Rec Blow Description TCW ppm System Chlorides 2054 Total Depth M OBIH Wt. Pipe Run Bottom Packer Depth SIA Drill Collars Run Top Packer Depth Mud Wt. Drill Pipe Run Anchor Length Zone Tested Interval Tested Large State Location: Sec. Co. Rep / Geo. Address KB Elevation 2815 Company Well Name & No. 1# ら一つ井 P.O. Box 1733 • Hays, Kansas 67601 4 1267 ON ESTING INC. Test Ticket RILOBITE

Approved By
Approved By
Intibûte Testing Inc., shall not se its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Day Standby

D Extra Recorder

LI Extra Packer

☐ Shale Packer

M Mileage 50 Rg

☐ Hourly Standby

Circ Sub

O Straddle

D Sampler

5528

OS. TTAL

☐ Ruined Shale Packer

Total

05.77

Sub Total

Comments

100.T

belluq-T

☐ Extra Copies

D Ruined Packer

05

Final Shut-In

Final Flow

Initial Shut-In

O & nego listin

(H) Final Hydrostatic

(F) Second Final Flow

(E) Second Initial Flow

(G) Final Shut-In

nl-lund latinin (O)

Test Ticket

ESTING INC. RILOBITE

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NO. 49220

P.O. Box 1733 • Hays, Kansas 67601

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Test Ticket

EZTING INC.

47776 ON

1515 Commerce Parkway • Hays, Kansas 67601

v8 bevoradA	NAME OF THE PARTY	*****	,) critetacsorase	I Lill	127	
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wol4 Isni		□ Day Standby	***	OS.TV IsloT	05.	***************************************
nt-turk2 leitini		☐ Extra Recorder	And the second s	Sub Total	0	***
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neqO lailinl		☐ Shale Packer		D Ruined Pac	Раскег	Shirt V, Auto-Artista (Artista Artista)
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(A) Initial Hydrostatic		lseT 🗖		T-On Location	05:4/ uoi	
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Location: Sec.	6/ .qwT 6	- Rge. 35	co. Wichir	У	Sy elsis	5 V 10
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Address Pols	369 LittleTon C	09108				and Hand
Company SDO	00 776		Elevation		KB	פר
Well Name & No.	Kees Kanch	61.	Test No.	ətsQ	E1-4-13	******

Our Representative

Tribohe Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a fest is made, or for any loss suffered or sustained, directly, through the use of the perty for whom the party for whom the perty for whom the perty is made equipment or instance or opinion concerning the results of any fest, tools lost or damaged in the hole shall be paid for it cost by the party for whom the test is made.

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

October 15, 2013

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

Re: ACO1 API 15-203-20223-00-00 Rees Ranch 6-19 NW/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