KOLAR Document ID: 1467686

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #		API No.:
Name:		Spot Description:
Address 1:		SecTwpS. R □East □ West
Address 2:		Feet from
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.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 □	SWD	Producing Formation:
	EOR	Elevation: Ground: Kelly Bushing:
	GSW	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?
If Workover/Re-entry: Old Well Info as for	ollows:	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 EOR Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Liner ☐	Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
		Chloride content: ppm Fluid volume: bbls
	nit #:	Dewatering method used:
	mit #: mit #:	Location of fluid disposal if hauled offsite:
	nit #:	Location of fluid disposal if flauled offsite.
	mit #:	Operator Name:
		Lease Name: License #:
Spud Date or Date Reached	TD Completion Date or	Quarter Sec TwpS. R
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 ☐ Drill Stem Tests Received
Geologist Report / Mud Logs Received
UIC Distribution
ALT I I II Approved by: Date:

KOLAR Document ID: 1467686

Page Two

Operator Name: _			Lease Name:			Well #:			
Sec Twp.	S. R.	E	ast West	County:					
	flowing and shu	ut-in pressures, v	vhether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,	
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log	
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample	
Samples Sent to 0	Geological Surv	/ey	Yes No	Na	me		Тор	Datum	
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No						
		B	CASING eport all strings set-c		New Used	ion, etc.			
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Weight Setting		# Sacks Used	Type and Percent Additives	
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD				
Purpose:		epth T Bottom	ype of Cement	# Sacks Used	ed Type and Percent Additives				
Perforate Protect Casi Plug Back T									
Plug Off Zor									
Did you perform a Does the volume Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,	
Date of first Product Injection:	tion/Injection or R	esumed Production	Producing Meth	nod:	Gas Lift 0	Other (Explain)			
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity	
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			DN INTERVAL: Bottom	
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT	
,	,			B.11 B1					
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid,	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record	
TUBING RECORD:	: Size:	Set	Δ+-	Packer At:					
TODING RECORD:	. 3126.	Set	n.	i donei Al.					

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	SCHOWALTER 8-12
Doc ID	1467686

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	SCHOWALTER 8-12
Doc ID	1467686

Tops

Name	Тор	Datum
Base Anhydrite	2309	+663
Heebner	3894	-922
Lansing	3944	-972
Muncie Creek	4109	-1137
Stark Shale	4209	-1237
Hushpuckney	4245	-1273
Marmaton	4332	-1360
Pawnee	4414	-1442
L. Cherokee Shale	4484	-1512
Johnson	4526	-1554
Mississippian	4568	-1596

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	SCHOWALTER 8-12
Doc ID	1467686

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	265	Class A	180	2% gel, 3% cc
Production	7.875	4.5	10.5	4644	EA-2	175	5% Calseal, 10% Salt, 1% Halad 322, 7#/sx Gilsonite & 1/8#/sx Floseal



P. O. Box 466

Ness City, KS 67560

Off: 785-798-2300



Invoice

DATE	INVOICE #				
6/17/2019	32316				

BILL TO

Shakespeare Oil Company, Inc 202 West Main Street Salem, IL 62881

- Acidizing
- Cement

• Tool Rental

INT

TERMS	Well N	lo.	Lease	County	Contractor	We	ll Type	We	ell Category	Job Purpose	Operator
Net 30 (#8-12	2	Schowalter	Scott	Southwind Rig #8		Oil Devel		evelopment (Surface Pipe	Gideon
PRICE REF. DESCRIPTION					ION		QT	Y	UM	UNIT PRICE	AMOUNT
575D 576D-S 325 276 278 279 290 581D 583D		Pump Stand Floce Calci Bente D-Ai Servi Dray	ium Chloride onite Gel ir ice Charge Ceme age	ent			2 4 2	1 185 50 8 3 3 185 499	Miles Job Sacks Lb(s) Sack(s) Sack(s) Gallon(s) Sacks Ton Miles	5.00 925.00 13.50 3.00 40.00 30.00 42.00 1.85 0.95	275.00 925.00 2,497.50T 150.00T 320.00T 90.00T 126.00T 342.25 474.05 5,199.80 270.60
										502 - 5 DH	·
We A	We Appreciate Your Business!								Tota	Secretary of the secret	\$5,470.40



CHARGE TO:	Shakespeare Oil Co. I'me
ADDRESS	- ,

TICKET 032316

DATE SIGNED C-17-2018 11ME SIGNED EFA.M.	STOMER'S AGENT PRIOR TO DS.	but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.	LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include.	S S S S S S S S S S S S S S S S S S S	<u> </u>		1320	250	278	2%	The state of the s	326	TO THE PROPERTY OF THE PROPERT	5765		PRICE SECONDARY REFERENCE/ ACCOUNTING FERENCE PART NUMBER LOC ACCT	REFERRAL LOCATION INVOICE INSTRUCTIONS	∂_{l}^{0}	2. Dervice Southuju	CONTRACTOR	s, Inc.	A COUNTY OF THE PARTY OF THE PA
/85-/98-2300	7560	SWIFT SERVICES, INC. PER	AYMENT TO:	Dreyage	CMT Service Charge	V-1111	Denonte Cher	Rat / Call	Charles Charles	Elrek		Standard CMT	Com the Comment	2	MILEAGE TA # 10	DESCRIPTION	/	Development Surface Roe		LEASE Shown It COUNTY/PARISH	CITY, STATE, ZIP CODE	4441 45 0005
CUSTOMER DID NOT WISH TO RESPOND	ERVICE?	WE UNDERSTOOD AND MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY?	SURVEY AGREE UNDECIDED DISAGREE UNDECIDED DISAGREE PAGE TOTAL WITHOUT BREAKDOWN?	18,140TW 499 TM 0 95	185188 1 85		(_	, 	3 2 2 3	-	186 sks 13 50		1 360 8:	55 m 5 5	QTY. U/M QTY. U/M PRICE	1/2-1/2	WELL PERMIT NO. WELL LOCATION Soft City	Lozation	STATE CITY SOFT CITY CATE OF DATE OF ORDER NO	1	PAGE
8-10-KB	270/00		5199	- 14h	SE CHE	20	12/2	100 CE	20 (EX	150 100		20 (PHE		200 Jac	275/00	AMOUNT	1-104	5-6		OWNER		OF

SWIFT OPERATOR Judeson Fully

APPROVAL

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!

PAGE NO. SWIFT Services. Inc. JOB TYPE TICKET NO.

Surface Pip 32316

DESCRIPTION OF OPERATION AND MATERIALS ೮೦B LOG CUSTOMER WELL NO. Schowalter Sharkespeale CHART TIME VOLUME (BBL) (GAL) PUMPS TUBING CASING On Location @ 878" 2316/A ¥2300 RTD: 266 Start 8%" 23/6/ft Cosing in Well 2315 0046 Break Circulation 3/2 Pump 5 bb/ Hao Spaces 0100 5 4% Mix 185 sks CMT@14.7ppg 45 0105 300 Displace CMT 3/2 Circulate @ CMT To Surface 10 KO Pump & Shot in & 16/4 0130 Release Pressure 0130 Wash up Tik #112 185 sks of Standard 2% get 3% CC 44#Flo CMT used Job Complete 0200 Thank You Gideon Pireston asaac 4



P. O. Box 466 Ness City, KS 67560 Off: 785-798-2300



Invoice

DATE	INVOICE#
6/27/2019	32278

BILL TO

Shakespeare Oil Company, Inc 202 West Main Street Salem, IL 62881

- Acidizing
- Cement
- Tool Rental

10	oT
1	<i>\</i>

TERMS	Well No	. Lease	County	Contractor	Wel	I Type	We	ell Category	Job Purpose	Operator
Net 30	#8-12	Schowalter	Scott	Southwind Rig #8		Oil	D	evelopment	Cement Longstr	ing Blaine
PRICE	REF.		DESCRIPT	TON		QT	Y	UM	UNIT PRICE	AMOUNT
575D 578D-L 280 221 290 419-4 325 284 283 277 292 276 581D 583D]]]]]]]]]]]]]]]]]]]	Mileage - 1 Way Pump Charge - Long Flocheck 21 Liquid KCL (Clayfix D-Air 4 1/2" Rotating Head Standard Cement Calseal Salt Gilsonite (Coal Seal) Halad 322 Flocele Service Charge Cem Drayage Subtotal Sales Tax Scott Cou	d Rental	502-5 DH		1	,125 200 50 225	Miles Job Gallon(s) Gallon(s) Each Sacks Sack(s) Lb(s) Lb(s) Lb(s) Ton Miles	5.00 1,400.00 3.50 25.00 42.00 250.00 13.50 40.00 0.25 1.25 8.50 3.00 1.85 0.95	300.00 1,400.00 1,750.00T 50.00T 84.00T 250.00T 3,037.50T 440.00T 275.00T 1,406.25T 1,700.00T 416.25 704.66 11,963.66 777.13
We A	ppre	ciate Your	Busines	ss!		•		Tota	al .	\$12,740.79





CHARGE TO:	Shakespearco
ADDRESS	

TICKET
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Services,	Inc.	CITY,	CITY, STATE, ZIP CODE	·				PAGE 1	\(\rho_{\text{sq}}\)
SERVICE LOCATIONS	, 12 WELL/PROJECT NO. 12		LEASE Chambers	COUNTY/PARISH	大公 STATE	others also	7	DATE JUN 19 ON	OWNER
20	TICKET TYPE OF SALES	윘	A 7 (F)	RIG NAME/NO.	SHIPPED	DELIVERED TO		ORDER NO.	
ख <i>ब</i>	WELL TYPE		MELL CATEGORY	JOB PURPOSE	9	WELL PERMIT NO	•	WELL LOCATION	
REFERRAL LOCATION	INVOICE INSTRUCTIONS	RUCTIONS							
PRICE SE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING	ᆔ	DESCRIPTION		QTY. U/M	QTY. U/M	UNIT	AMOUNT
575			MILEAGE	hir all		O Trus		500	3000
578		شبم	JUMP CAN	isel long	otrik	1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	1 ca	14 00 CO	1400 log
18D			Nachaek	الم	(500 cal		30	1750 00
331						0 5a/		35/8	57/00
390			11-30			27001		42/00	89/8
PIN			Total was	had sental		10 Pm) 20	250,80	250/8
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A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								***************************************	- Linear Samon
***************************************				- Las Administratives of the second s					8129-46
LEGAL TERMS: Cus the terms and condition	LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include,	es and agrees to of which include,		REMIT PAYMENT TO:	SURVEY OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	PAMED AGREE	UNDECIDED DISAGREE	PAGE TOTAL .	# 54+8 00/1488E
but are not limited to, PAYMENT LIMITED WARRANTY provisions	but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.	VDEMNITY, and		SWIFT SERVICES, INC.	WE UNDERSTOOD AND MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY?	DELAY?		>	1389011
MUST BE SIGNED BY CUSTOMER OR CUSTOMER OF GOODS	MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.)R TO	P.O.		WE OPERATED THE EQUAND PERFORMED JOB CALCULATIONS	JIPMENT		OSSISTED TO THE PROPERTY OF TH	
×	***		NESS CI	NESS CITY, KS 6/560	ARE YOU SATISFIED WITH OUR SERVICE?	OUR SERVICE	3	0 ()	
מע'ום פומואכם	LIMIT ORGINGO	□ P.M.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	/ 00-/ 90-2000	<u>ا</u>	CUSTOMER DID NOT WISH TO RESPOND	H TO RESPOND	IOIAE	SILOALE
			-		•				,

SWIFT OPERATOR

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!

APPROVAL

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TOKET CONTINUATION

No. 377.78

Off. 785-798-2300 Accounting Description Description Accounting Description Description Accounting Description Description Accounting Description Description Description Accounting Description Description Description Accounting Description Description Description Accounting Description Description Description Description Accounting Description Description Description Accounting Description Description Description Description Accounting Description Description Description Accounting Description Description Description Description Accounting Description Description Description Accounting Description Description Description Description Accounting Description Description Description Accounting Description Descriptio	CH. 795-798-2300 Accounting Standard Emust (First & Standard Emust (First	583	200								:		 <i>3</i> 76	392	776	283 	784	325	PRICE SE	Services
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ONDED MILES (CO	CONSCIENT CONSCI	MILEAGE TOTAL WEIGHT	SERVICE CHAPGE 2		2								Procelle	halled - 322	G/8mte	Subs	Calsed	Standard Emus	DF TIME	<u>ν</u>
	1 75 1 75 1 75 1 75 1 75 1 75 1 75 1 75 75	ONDED MILES (CD											50	36	2811	100		(Fr 57-3)		

CONTINUATION TOTAL

SWIFT Services. Inc.

DATE 27 Jun 19

LEASE Schowalter Coment long strong TICKET NO. 32278 JOB LOG* CUSTOMER Shakespeace WELL NO. 8 -12 DESCRIPTION OF OPERATION AND MATERIALS RATE (BPM) VOLUME (BBL) (GAL) PRESSURE (PSI) TIME TUBING CASING 225 sk standard commit w/ Gilsonite 4½×105# 462' shoejt 43.95 Port College 9249' onla TRIFE 114 0800 Start 42 × 10.5 casing in well 0938 Drop bull - circulate - ROTATE Pup 15 ACL floor Pup 20 gal Flodek Pup 5 bbl ACL floor 15 1300 12 13/0 mix EAZ coment 1755 @ 15.3 PP9 34 100 1320 46 Visplace plug 1342 51 200 68 650 LAND Plug Release pressure to truck - deced up 1410 1440



P. O. Box 466

Ness City, KS 67560

Off: 785-798-2300



Invoice

DATE	INVOICE#
7/2/2019	32280

RI		

Shakespeare Oil Company, Inc 202 West Main Street Salem, IL 62881

- Acidizing
- Cement



Tool Rental

TERMS	Well No	o. Lease	County	Contractor	Wel	l Type	We	ell Category	Job Purpose	Operator
Net 30 (#8-12	Schowalter	Scott	Wild West		Oil	D	evelopment	Cement 4 1/2 por	Blaine
PRICE	REF.		DESCRIPT	TION		QT	Y	UM	UNIT PRICE	AMOUNT
	JUL 0	Mileage - 1 Way Pump Charge - Deep Swift Multi-Density Flocele D-Air Service Charge Cem Drayage Subtotal Sales Tax Scott Cou	Standard (MIE	0 Ft.) & Port Collars OCON II)		1,04	1 200 50 1	Miles Job Sacks Lb(s) Gallon(s) Sacks Ton Miles	5.00 1,400.00 17.00 3.00 42.00 1.85 0.95 8.50%	300.00 1,400.00 3,400.00 150.00 42.00 647.50 992.61 6,932.11 305.32
We A	Appre	eciate Your	Busines	ss!			1	Tota	al	\$7,237.4



\DDRESS	HARGE TO:	Shakesoease,
	DDRESS	

TICKET 032280

DATE SIGNED	MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.	but are not limited to, PAYMENT LIMITED WARRANTY provisions.	LEGAL TERMS: Customer h the terms and conditions on the	, critino,	200		Ope	276	330	5760	575	PRICE SECONDAF	REFERRAL LOCATION	4.		SERVICE LOCATIONS C- 1	Services, Inc.
TIME SIGNED A.M	USTOMER'S AGENT PRIOR TO ODS.	but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.	LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include,				•			Î		SECONDARY REFERENCE/ ACCOUNTING PART NUMBER LOC ACCT 1	INVOICE INSTRUCTIONS	O ₁	☐ SERVICE SALES	MELL/PROJECT NO 12 L	
785-798-2300	P.O. BOX 466 NESS CITY, KS 67560	SWIFT SERVICES, INC.	REMIT PAYMENT TO:		Mayaro	Stavia charge	D-Air	Florella	it tt	Fun Change TORY COLLAR	MILEAGE TRAL WIF	ING DESCRIPTION	•	LOWELL CAMES 1/2 FOR	مريد ويدوم	LEASE COUNTY/PARISH SCALE RIG NAME/NO.	CITY, STATE, ZIP CODE
CUSTOMER DID NOT WISH TO RESPOND	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? ARE YOU SATISFIED WITH OUR SERVICE?	ET YOUR NEEDS? FI YOUR NEEDS? R SERVICE WAS RFORMED WITHOUT DELAY?	UNDECIDED		10 70 70 10 10 10 10 10 10 10 10 10 10 10 10 10	+		50/1/05	200 xk	700	W Mi	מדץ. טאא מדץ. טאא		WELL PERMIT NO.	WAST BESTON	STATE CITY SHIPPED DELIVERED TO.	
TOTAL	856		PAGE TOTAL 69		73	2 60	8 8	3 00	17 80 34	1400 00 14	\(\frac{\z_1}{\text{8}}\)	PRICE	And the state of t	WELL LOCATION		DATE OWNER ON ORDER NO.	PAGE O
7337 43	305/32		6932 11		 		8 CT-12-8	150 0	10000	900 loop	300 00	AMOUNT					OF

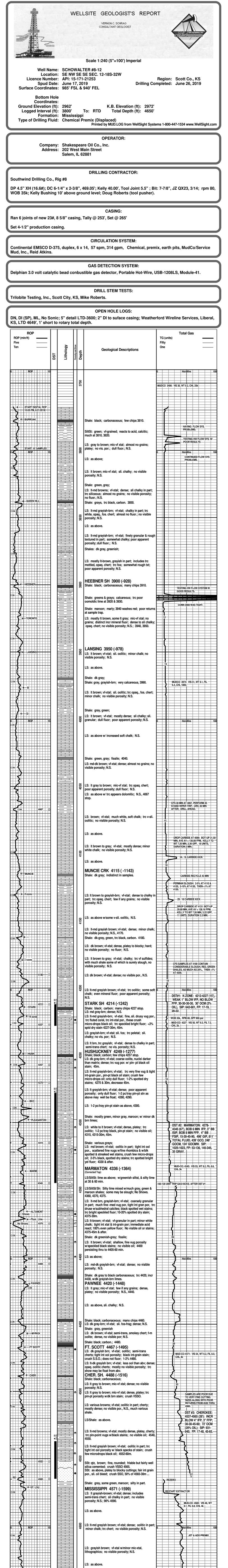
SWIET OPERATOR

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!

APPROVAL

JOB LOG CUSTOMER WELL			- WELL NO	·	JEASE	1 Seu	LORTYPE 1 TICKET NO.		
CUSTOMER W			WELL NO.	-12	ا تَّحَيَّاً	rowalf	er ceruit part coller TICKET NO. 32280		
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSI TUBING	URE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS		
	-	(21 11)	(554) (67.5)		TOBING	CASING	350ch SIMD a + 11 1/14 Flood		
							3505k SMD cement w/ 14th Flowle 23×42 port collec - 2244'		
							The state of the s		
	1010		***************************************				onloc ARKUT		
	102t				1000	1000	tect to proper - hold		
	. /						test to 1000psi - hald open Port collar inj Rate 3½ bpm @ 300 psi		
	11	3/2	2		360		ini pata 35 kg @ 200 oci		
							The state of the s		
	***************************************	35			300		mix SIND come of @ 11.2.000		
		35	18		3200		mix SUND cement @ 11.2 ppg - circulate blend to pit -		
		32	107		600		coment to surpare \$ 200 sk wixer }		
							Son sk word		
							30 WP.1		
			72				Displace 72 Who HzD		
							close part collap		
							•		
	1120				1000	1000	test to 1000 ps - hold		
							,		
							for 5 jaints		
							· ·		
	1128		25				Reverse hole clean		
	N Company				į		Reverse hole clean - a cement flags -		
	1139						wash touch		
	•					ļ	wash tool pull tool		
							Rtck up		
							,		
···	-1230						job complete		
							- Charles		
							· .		
							Blaine, Frut & 15AAC		
			1		1	1			



LS: as above.

RTD AT 4:03 PM

ROTARY TOTAL DEPTH 4650 (-1678)



Shakespeare Oil Co. Inc.

12-18s-32w Scott Co KS

81

Reference Elevations:

202 West Main St

Salem IL 62881

Job Ticket: 64828

Schowalter 8-12

DST#: 1

ATTN: Vern Schrag

Test Start: 2019.06.23 @ 08:52:23

GENERAL INFORMATION:

Formation: Κ

Deviated: Whipstock: No ft (KB)

Time Tool Opened: 11:41:08

Time Test Ended: 15:30:08

Interval: 4212.00 ft (KB) To 4227.00 ft (KB) (TVD)

Total Depth: 4227.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair Test Type: Conventional Bottom Hole (Initial) Tester: Mike Roberts

2972.00 ft (KB)

2962.00 ft (CF) KB to GR/CF: 10.00 ft

Serial #: 8521

Press@RunDepth:

Start Date:

Start Time:

Inside

22.48 psig @ 2019.06.23

08:52:23

4213.00 ft (KB) End Date:

End Time:

Capacity:

Unit No:

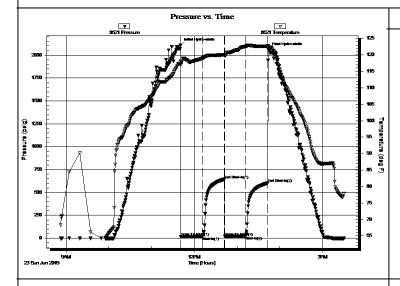
8000.00 psig

2019.06.23 Last Calib.: 2019.06.23 15:30:08 Time On Btm: 2019.06.23 @ 11:40:53

> 2019.06.23 @ 13:44:08 Time Off Btm:

TEST COMMENT: IF:Built to 1" blow

IS:No return blow FF:No blow FS:No return blow



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2108.61	118.07	Initial Hydro-static
1	17.20	116.95	Open To Flow (1)
31	19.60	118.92	Shut-In(1)
61	642.92	120.04	End Shut-In(1)
62	20.10	119.69	Open To Flow (2)
91	22.48	122.58	Shut-In(2)
122	601.13	122.62	End Shut-In(2)
124	2059.52	122.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	ocm 2%o 98 %m	0.42
	+	

Gas Rates

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

Trilobite Testing, Inc. Ref. No: 64828 Printed: 2019.06.23 @ 19:03:12



Shakespeare Oil Co. Inc.

12-18s-32w Scott Co KS

202 West Main St

Salem IL

62881

ATTN: Vern Schrag

Schowalter 8-12

Job Ticket: 64828

DST#: 1

Test Start: 2019.06.23 @ 08:52:23

GENERAL INFORMATION:

Formation: Κ

Deviated: Whipstock: No ft (KB)

Time Tool Opened: 11:41:08

Time Test Ended: 15:30:08

Interval: 4212.00 ft (KB) To 4227.00 ft (KB) (TVD)

Total Depth: 4227.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Outside

Test Type: Conventional Bottom Hole (Initial)

Mike Roberts

Unit No:

Reference Elevations:

Tester:

81

2972.00 ft (KB)

2962.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8968

Press@RunDepth: Start Date:

psig @ 2019.06.23

4213.00 ft (KB)

2019.06.23

Capacity: Last Calib.: 8000.00 psig

Start Time:

08:52:15

End Date: End Time:

15:30:45

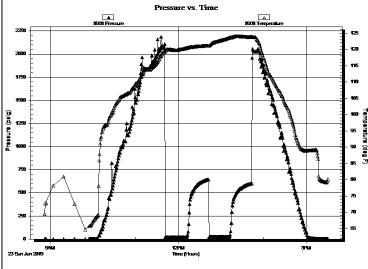
Time On Btm:

2019.06.23

Time Off Btm:

TEST COMMENT: IF:Built to 1" blow

IS:No return blow FF:No blow FS:No return blow



PRESSURE SUMMARY

	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
Tamasafilis (dan E)				
,				
9				

Recovery

Description	Volume (bbl)
ocm 2%o 98 %m	0.42

Gas Rates

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

Trilobite Testing, Inc. Ref. No: 64828 Printed: 2019.06.23 @ 19:03:13



FLUID SUMMARY

Shakespeare Oil Co. Inc.

12-18s-32w Scott Co KS

202 West Main St

Salem IL

62881

ATTN: Vern Schrag

Schowalter 8-12

Job Ticket: 64828

Serial #:

DST#: 1

Test Start: 2019.06.23 @ 08:52:23

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:0 deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:0 ppm

Viscosity: 51.00 sec/qt Cushion Volume: bbl

6.39 in³ Gas Cushion Type:

0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 1800.00 ppm Filter Cake: 1.00 inches

Recovery Information

Water Loss:

Resistivity:

Recovery Table

Length ft	Description	Volume bbl
30.00	ocm 2%o 98 %m	0.421

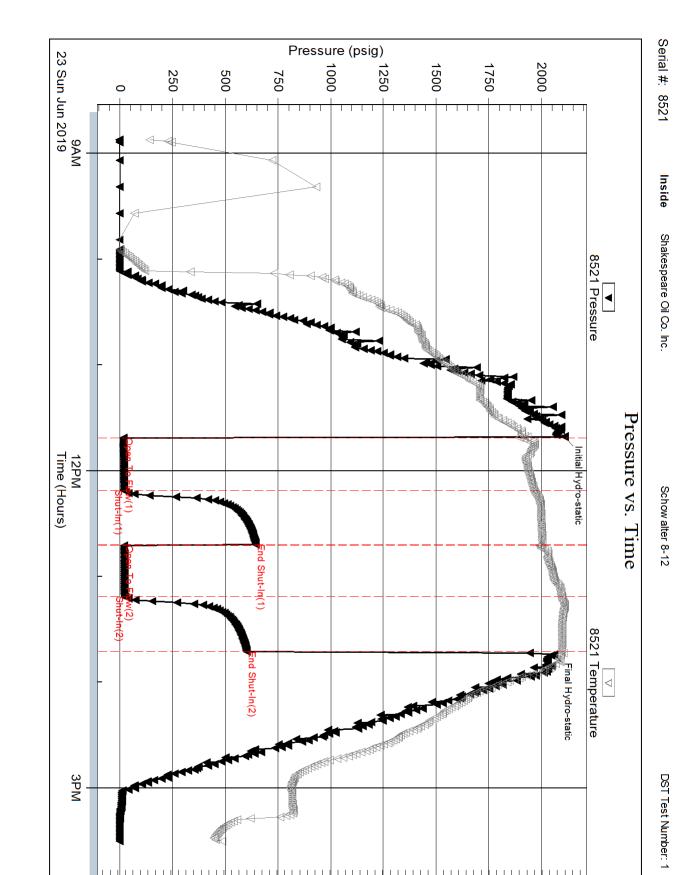
Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

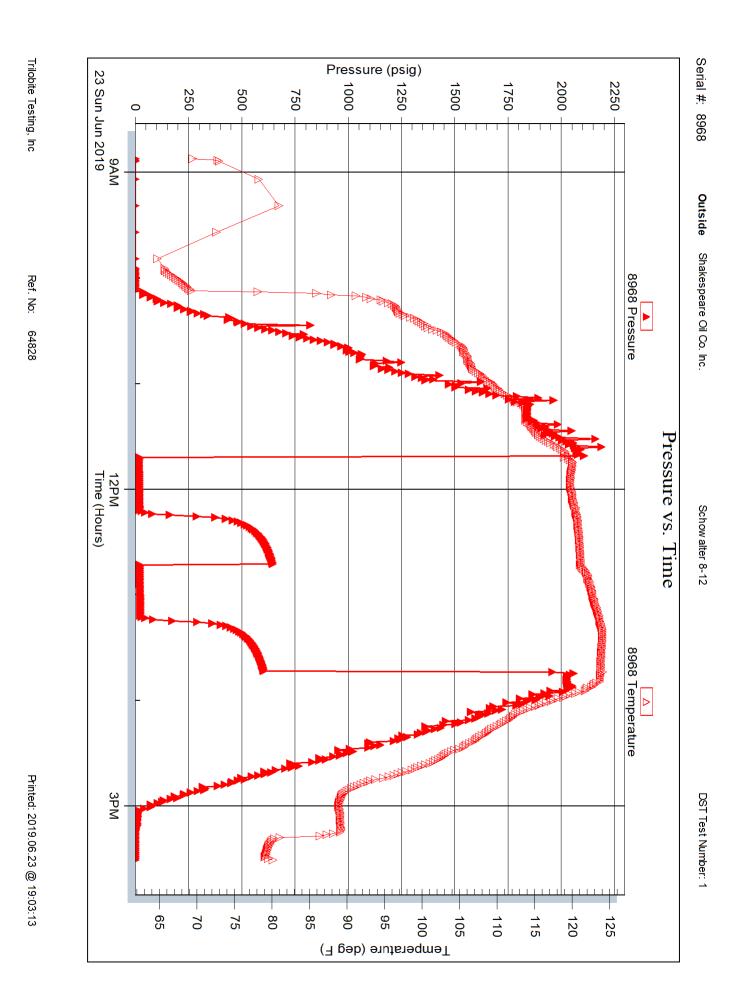
Recovery Comments:

Trilobite Testing, Inc Ref. No: 64828 Printed: 2019.06.23 @ 19:03:13



Temperature (deg F)

Trilobite Testing, Inc





Shakespeare Oil Co. Inc.

12-18s-32w Scott Co KS

Salem IL 62881

Job Ticket: 64829

Schowalter 8-12

DST#: 2

ATTN: Vern Schrag

202 West Main St

Test Start: 2019.06.24 @ 10:48:15

GENERAL INFORMATION:

Formation: Marmaton

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

Time Tool Opened: 12:57:45

Tester: Mike Roberts

Time Test Ended: 18:15:30 Unit No: 81

Interval: 4278.00 ft (KB) To 4345.00 ft (KB) (TVD) Reference Elevations: 2972.00 ft (KB)

Total Depth: 4345.00 ft (KB) (TVD) 2962.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8521 Inside

Press@RunDepth: 345.39 psig @ 4315.00 ft (KB) Capacity: 8000.00 psig

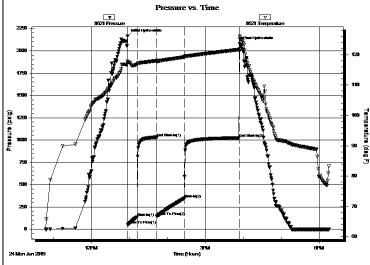
 Start Date:
 2019.06.24
 End Date:
 2019.06.24
 Last Calib.:
 2019.06.24

 Start Time:
 10:48:15
 End Time:
 18:15:30
 Time On Btm:
 2019.06.24 @ 12:57:15

Time Off Btm: 2019.06.24 @ 15:54:30

TEST COMMENT: IF:BOB in 6 min. Built to 25 3/4" blow

IS:Return blow built to 3 1/4"
FF:BOB in 8 min. Built to 71" blow
FS:Return bow built to 4 3/4"



		PI	KESSUR	RE SUMMARY
1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2163.64	117.78	Initial Hydro-static
	1	53.24	117.32	Open To Flow (1)
	15	136.25	116.72	Shut-In(1)
	47	1025.57	118.02	End Shut-In(1)
	47	145.19	117.59	Open To Flow (2)
	90	345.39	119.21	Shut-In(2)
,	177	1023.21	121.66	End Shut-In(2)
,	178	2077.60	126.07	Final Hydro-static

DDESCLIDE SLIMMADV

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP- 496 ft	0.00
439.00	gco 20%g 80%o	6.16
248.00	ocm 5%o 5%g 80%m	3.48
124.00	5%g 5%o 10%m 80%m	1.74
* Recovery from mult	inle tests	,

Gas Rates			
	Choke (inches)	Proceure (peig)	Gas Pate (Mof/d)

Trilobite Testing, Inc Ref. No: 64829 Printed: 2019.06.24 @ 22:27:23



Shakespeare Oil Co. Inc.

12-18s-32w Scott Co KS

202 West Main St

Salem IL

Job Ticket: 64829

Schowalter 8-12

62881

DST#: 2

ATTN: Vern Schrag

Test Start: 2019.06.24 @ 10:48:15

GENERAL INFORMATION:

Formation: Marmaton

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

Time Tool Opened: 12:57:45 Tester: Mike Roberts

Time Test Ended: 18:15:30 Unit No: 81

Interval: 4278.00 ft (KB) To 4345.00 ft (KB) (TVD) Reference Elevations: 2972.00 ft (KB)

Total Depth: 4345.00 ft (KB) (TVD) 2962.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8968 Outside

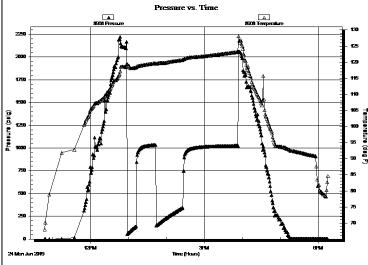
Press@RunDepth: 4315.00 ft (KB) Capacity: 8000.00 psig psig @

Start Date: 2019.06.24 End Date: 2019.06.24 Last Calib.: 2019.06.24

Start Time: 10:48:15 End Time: Time On Btm: 18:15:15 Time Off Btm:

TEST COMMENT: IF:BOB in 6 min. Built to 25 3/4" blow

IS:Return blow built to 3 1/4" FF:BOB in 8 min. Built to 71" blow FS:Return bow built to 4 3/4"



PI	RESSUR	RE SUMMARY
Pressure	Temp	Annotation

•	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
ď				
Temperatura (dec F)				
9				

Recovery

Length (ft)	Description	Volume (bbl)		
0.00	GIP- 496 ft	0.00		
439.00	gco 20%g 80%o	6.16		
248.00	248.00 ocm 5% o 5% g 80% m			
124.00 5%g 5%o 10%m 80%m		1.74		
* Recovery from multiple tests				

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc Ref. No: 64829 Printed: 2019.06.24 @ 22:27:24



FLUID SUMMARY

Shakespeare Oil Co. Inc.

12-18s-32w Scott Co KS

202 West Main St

Salem IL

62881 ATTN: Vern Schrag Schowalter 8-12

Job Ticket: 64829

DST#: 2

Test Start: 2019.06.24 @ 10:48:15

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: 35 deg API Cushion Length: Mud Weight: 9.00 lb/gal ft Water Salinity: 22000 ppm

Viscosity: 50.00 sec/qt Cushion Volume: bbl

> 7.19 in³ Gas Cushion Type:

0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 2200.00 ppm Filter Cake: 1.00 inches

Recovery Information

Water Loss:

Resistivity:

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP- 496 ft	0.000
439.00	gco 20%g 80%o	6.158
248.00	ocm 5%o 5%g 80%m	3.479
124.00	5%g 5%o 10%m 80%m	1.739

Total Length: 811.00 ft Total Volume: 11.376 bbl

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

Laboratory Name: Laboratory Location: Recovery Comments: API= 32 @ 90 corrected to 35@ 60

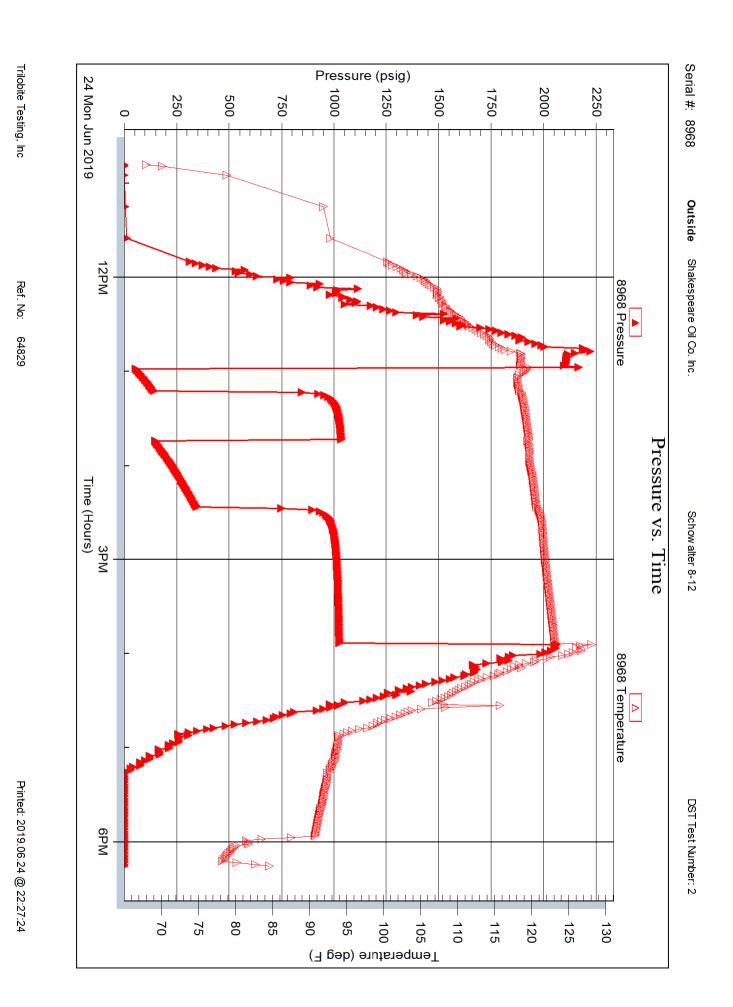
RW= .371@ 89.5= 22,000 ppm

Trilobite Testing, Inc. Ref. No: 64829 Printed: 2019.06.24 @ 22:27:24 Trilobite Testing, Inc

Ref. No:

64829

Printed: 2019.06.24 @ 22:27:24





Shakespeare Oil Co. Inc.

202 West Main St

ATTN: Vern Schrag

12-18s-32w Scott Co KS

Schowalter 8-12

Salem IL Job Ticket: 64830

Test Start: 2019.06.25 @ 23:27:15

DST#: 3

GENERAL INFORMATION:

Formation: Cherokee

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

Time Tool Opened: 01:39:45

Tester: Mike Roberts

Time Test Ended: 06:55:15 Unit No: 81

Interval: 4537.00 ft (KB) To 4565.00 ft (KB) (TVD) Reference ⊟evations: 2972.00 ft (KB)

Total Depth: 4565.00 ft (KB) (TVD) 2962.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8521 Inside

Press@RunDepth: 65.72 psig @ 4538.00 ft (KB) Capacity: 8000.00 psig

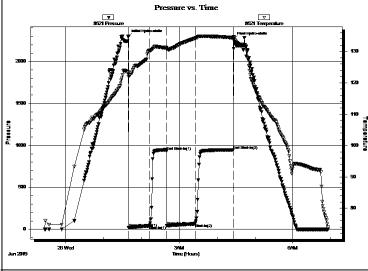
 Start Date:
 2019.06.25
 End Date:
 2019.06.26
 Last Calib.:
 2019.06.26

 Start Time:
 23:27:15
 End Time:
 06:55:15
 Time On Btm:
 2019.06.26 @ 01:39:30

Time Off Btm: 2019.06.26 @ 04:26:30

TEST COMMENT: IF:Built to 3 3/4" blow IS:No return blow

FF:Built to 3" blow FS:No return blow



PRESSURE SUMMARY				
Time	Pressure	Temp	Annotation	
(Min.)	(psig)	(deg F)		
0	2292.24	123.36	Initial Hydro-static	
1	17.52	121.89	Open To Flow (1)	
34	40.94	130.34	Shut-In(1)	
61	931.66	131.21	End Shut-In(1)	
61	45.21	130.71	Open To Flow (2)	
106	65.72	134.19	Shut-In(2)	
166	945.68	134.43	End Shut-In(2)	
167	2266.08	134.57	Final Hydro-static	
	(Min.) 0 1 34 61 61 106	Time (Min.) (psig) 0 2292.24 1 17.52 34 40.94 61 931.66 61 45.21 106 65.72 166 945.68	Time (Min.) (psig) (deg F) 0 2292.24 123.36 1 17.52 121.89 34 40.94 130.34 61 931.66 131.21 61 45.21 130.71 106 65.72 134.19 166 945.68 134.43	

Recovery

Length (ft)	Description	Volume (bbl)		
72.00	ocm 20%o 80%m	1.01		
* Recovery from multiple tests				

Gas Rat	es	
Choke (inches)	Proceuro (peig)	Cas Pate (Mef/d)

Trilobite Testing, Inc Ref. No: 64830 Printed: 2019.06.26 @ 07:52:34



Shakespeare Oil Co. Inc.

12-18s-32w Scott Co KS

202 West Main St

Salem IL

62881 ATTN: Vern Schrag Schowalter 8-12

Job Ticket: 64830

Test Start: 2019.06.25 @ 23:27:15

GENERAL INFORMATION:

Formation: Cherokee

Deviated: Whipstock: No ft (KB)

Time Tool Opened: 01:39:45 Time Test Ended: 06:55:15

4537.00 ft (KB) To 4565.00 ft (KB) (TVD)

Total Depth: 4565.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair Hole Diameter:

Test Type: Conventional Bottom Hole (Reset)

Unit No: 81

Tester: Mike Roberts

Reference Elevations:

2972.00 ft (KB)

2962.00 ft (CF)

DST#: 3

KB to GR/CF: 10.00 ft

Serial #: 8968 Outside

Press@RunDepth:

psig @

4538.00 ft (KB)

2019.06.26

Capacity: Last Calib.: 8000.00 psig

2019.06.26

Start Date: Start Time:

Interval:

2019.06.25 23:27:15

End Date: End Time:

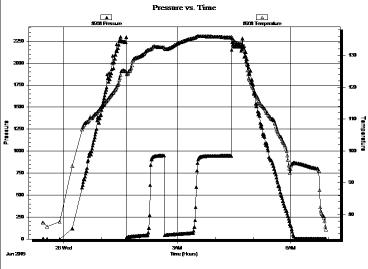
06:55:15

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:Built to 3 3/4" blow

IS:No return blow FF:Built to 3" blow FS:No return blow



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

Recovery

Length (ft)	Description	Volume (bbl)		
72.00	ocm 20%o 80%m	1.01		
* Recovery from multiple tests				

Gas Rates

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

Trilobite Testing, Inc. Ref. No: 64830 Printed: 2019.06.26 @ 07:52:35



FLUID SUMMARY

Shakespeare Oil Co. Inc.

12-18s-32w Scott Co KS

202 West Main St

Salem IL

62881

ATTN: Vern Schrag

Schowalter 8-12

Job Ticket: 64830

DST#: 3

Test Start: 2019.06.25 @ 23:27:15

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:0 deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:0 ppm

Viscosity: 54.00 sec/qt Cushion Volume: bbl

7.97 in³ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 4000.00 ppm Filter Cake: 1.00 inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
72.00	ocm 20%o 80%m	1.010

Total Length: 72.00 ft Total Volume: 1.010 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #:

Trilobite Testing, Inc Ref. No: 64830 Printed: 2019.06.26 @ 07:52:35

Trilobite Testing, Inc

Ref. No: 64830

Printed: 2019.06.26 @ 07:52:35

Trilobite Testing, Inc

Ref. No: 64830

Printed: 2019.06.26 @ 07:52:35