Confidentiality Requested: Yes No

KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1218243

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:	
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:+	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
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?
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 Permit #:	Location of huld disposal in hadred offsite.
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached 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	1218243
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East West	County:	
INCTRUCTIONS. Chow important tang of formations ponetrated	Dotail all coros Report all	final conject of drill stoms tasts giving interval tasted, time tool

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken (Attach Additional Sh	eets)	Yes No		-	on (Top), Depth ar		Sample
Samples Sent to Geolog	gical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
			RECORD Ne				
		Report all strings set-	conductor, surface, inte	ermediate, producti	on, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADDITIONAL	CEMENTING / SQL	JEEZE RECORD			
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used		Type and P	ercent Additives	

Perforate	Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing				
Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?	Yes
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

(If No, skip questions 2 and 3) (If No, skip question 3)

No

No No

No

(If No, fill out Page Three of the ACO-1)

Shots Per Foot		PERFORATION Specify For		RD - Bridge P Each Interval F		96	А		ement Squeeze Record d of Material Used)	Depth
TUBING RECORD:	Siz	ze:	Set At:		Packe	r At:	Liner Ru	ın:	No	
Date of First, Resumed	Product	ion, SWD or ENHF	? .	Producing M	lethod:	ping	Gas Lift	Other <i>(Explain)</i>		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
				-						
DISPOSITIO		Jsed on Lease		Open Hole	Perf.	(Submit /	Comp. 4 <i>CO-5)</i>	Commingled (Submit ACO-4)		IERVAL:
(II verneu, Sui		-10.j		Other (Specify)						

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Bahm 1-21
Doc ID	1218243

All Electric Logs Run

Array Induction	
Photo Density	
Comp Neturon	
Microlog	
Sonic	

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Bahm 1-21
Doc ID	1218243

Tops

Name	Тор	Datum
Base Anhydrite	2471	+676
Heebner	3999	-852
Lansing	4041	-894
Muncie Creek	4227	-1080
Stark Shale	4324	-1177
Hushpuckney	4372	-1225
Pawnee	4548	-1401
L. Cherokee Shale	4629	-1482
Johnson	4674	-1527
Mississippian	4815	-1668

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Bahm 1-21
Doc ID	1218243

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	267	Class A	190	3% CaCl2, 2% gel
Production	7.875	5.5	15.5	4895	ASC	155	2% gel, 10% salt, 5#/sx Gilsonite, 1/4#/sx Floseal & 3/4 of 1% CD-32

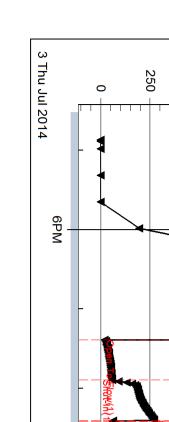
	DRILL STEM TES	TREP	ORT				
	Shakespeare Oil Co. Inc		21-	16s-34w	Scott	Co. KS	
ESTING , IN	202 10 10011 01.		Ва	hm #1-2	21		
	Salem IL. 62881		Job	Ticket: 57	7224	DST	#:1
	ATTN: Steve Davis		Tes	t Start: 20	014.07.03	@ 16:52:00)
GENERAL INFORMATION:	+						
Formation:Marmanton" ADeviated:NoWhipstorTime Tool Opened:19:23:25Time Test Ended:01:42:40			Tes	ter:	Conventic Will MacL 72	onal Bottom ean	Hole (Initial)
Total Depth: 4500.00 ft (KB)	4500.00 ft (KB) (TVD) (TVD) ole Condition: Good		Ref	erence Ele KB 1	evations: to GR/CF:	3135.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8674InsidePress@RunDepth:103.36 psiStart Date:2014.07.0Start Time:16:52:0TEST COMMENT:IF- Weak Surf	B End Date: D End Time:	2014.07.04 01:42:40	Capacity Last Cali Time On Time Off	b.: Btm:		8000. 2014.07. 03 @ 19:23: 03 @ 22:58:	10
	s. Time S.	Time (Min.) 0 1 31 61 62 122 215 216	Pressure (psig) 2246.72 20.76 57.46 270.72 60.40 103.36 445.65 2160.18	113.05	Annota Initial Hy Open To Shut-In(End Shu Open To Shut-In(End Shu	ation dro-static b Flow (1) 1) ut-In(1) b Flow (2) 2)	
зты дани теке как теке как как теке как т	y			Ga	s Rates		
Length (ft) Description	Volume (bbl)			Choke (inches) Pre	essure (psig)	Gas Rate (Mcf/d)
62.00 OGCM 11%oil 27%g							
62.00 MGCO 12%m 34%g							
62.00 GO 24%g 76%oil	0.87						
30.00 MGCO 3%m 4%g 93							
0.00 248' of Weak GIP	0.00						
ļ	· · · · · · · · · · · · · · · · · · ·						

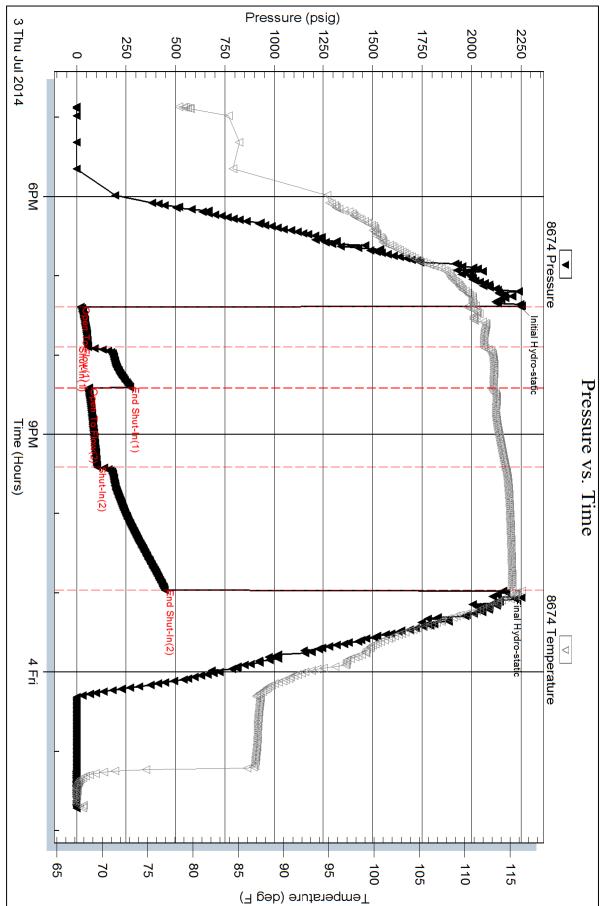
TON-		DRI	LL STEM TEST REPOR	Т	FLU	JID SUMMAR
· 第二	RILOBITE	Shakes	speare Oil Co. Inc	21-16s-34	w Scott Co. KS	
	ESTING , INC.		Main St. IL. 62881	Bahm #1		
				Job Ticket:		ST#:1
		ATTN:	Steve Davis	Test Start:	2014.07.03 @ 16:52	:00
lud and Cu	shion Information					
lud Type: Ge			Cushion Type:		Oil A PI:	31 deg API
lud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	ppm
iscosity:	50.00 sec/qt		Cushion Volume:	bbl		
/ater Loss:	9.56 in ³		Gas Cushion Type:			
esistivity:	ohm.m		Gas Cushion Pressure:	psig		
alinity: ilter Cake:	5000.00 ppm 1.00 inches					
ecovery In						
			Recovery Table			
	Lengt	h	Description	Volume		
	ft			bbl		
		62.00	OGCM 11%oil 27%g 62%m	0.8		
		62.00	MGCO 12%m 34%g 54%oil	0.8		
		62.00	GO 24%g 76%oil	0.8		
		30.00 0.00	MGCO 3%m 4%g 93%oil 248' of Weak GIP	0.4		
	Laboratory Nam Recovery Comm		Laboratory Location: Pl is 32 @ 70f = 31			

Printed: 2014.07.04 @ 05:10:55

Ref. No: 57224

Trilobite Testing, Inc





Serial #: 8674 Inside Shakespeare Oil Co. Inc

Bahm #1-21

DST Test Number: 1

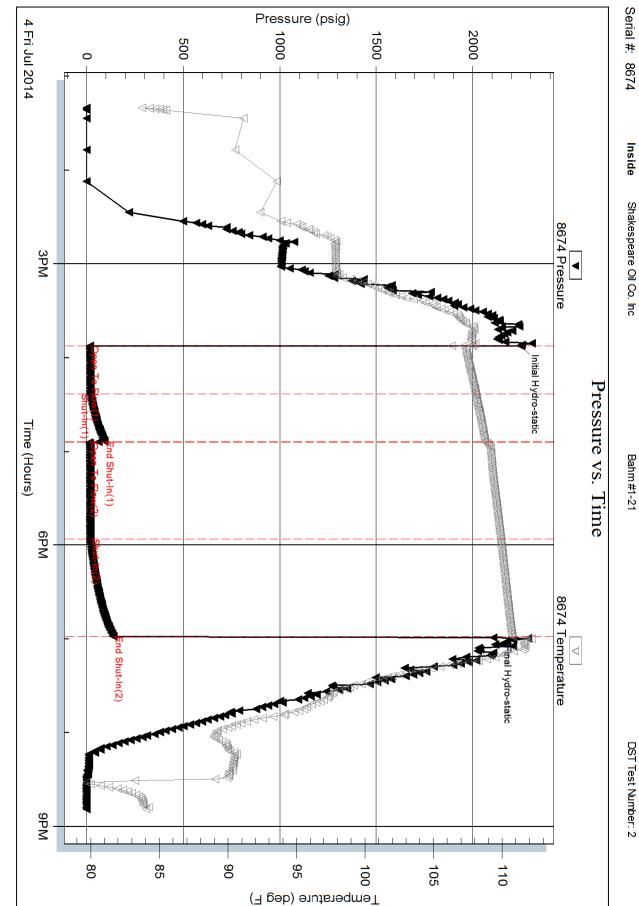
	DRILL STEM TES		ORT				
RILOBITE	Shakespeare Oil Co. Inc		21-16	6s-34w	Scott Co.	KS	
ESTING , INC.	202 W Main St. Salem IL. 62881		Bahı	n #1-2 1	1		
			Job Ti	cket: 572	225	DST	#:2
	ATTN: Steve Davis		Test S	Start: 20	14.07.04 @	13:20:00)
GENERAL INFORMATION:							
Formation:Marmanton "B-CDeviated:NoWhipstock:Time Tool Opened:15:52:25Time Test Ended:20:48:39	" ft (KB)		Test T Teste Unit N	r: V	Conventional Vill MacLean 2		Hole (Reset)
Interval:4497.00 ft (KB) To454Total Depth:4541.00 ft (KB) (TVHole Diameter:7.88 inches Hole			Refer	ence Elev KB to	vations: o GR/CF:	3135.0	00 ft (KB) 00 ft (CF) 00 ft
	End Date: End Time:	2014.07.04 20:48:39	Capacity: Last Calib.: Time On Bt Time Off Bi	m: 2	2 2014.07.04 @ 2014.07.04 @	2014.07.(@ 15:52:′	10
FSI- No Blow							
Pressure vs. Ti T 804 Pressure	ime 8674 Temperature	Time	PRE Pressure	Temp	E SUMMA Annotation		
	110	(Min.)	(psig)	(deg F)			
2000		0			Initial Hydro Open To Flo		
		31	19.46	108.07	Shut-In(1)	. ,	
		62 62			End Shut-In Open To Flo		
		124	20.24			500 (2)	
		187 187		110.72			
4 Fri JJ 2014 Time (Haus)	GM SM						
Recovery			ļ ļ	Gas	Rates		
Length (ft) Description	Volume (bbl)			Choke (in	nches) Pressur	e (psig)	Gas Rate (Mcf/d)
20.00 WOCM 2%w 9%oil 89%	6m 0.28						
* Recovery from multiple tests	 						
Trilobite Testing, Inc	Ref. No: 57225	•		Printed: "	2014.07.04	@ 22.28	25

RILOB		ILL STEM TEST REPC	DRT	FLUI	D SUMMARY
	SIIE Shake	espeare Oil Co. Inc	21-16s-34v	w Scott Co. KS	
EST		/ Main St. n IL. 62881	Bahm #1-		-#. 0
			Job Ticket: 5		
	ATIN	: Steve Davis	Test Start: 2	2014.07.04 @ 13:20:0	0
Mud and Cushion Info	ormation				
Salinity: 6800.00	sec/qt in³ ohm.m	Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	ft bbl psig	Oil API: Water Salinity:	deg API ppm
Recovery Information	n				
	r	Recovery Table		7	
	Length ft	Description	Volume bbl		
	20.00	WOCM 2%w 9%oil 89%m	0.28	1	
То	otal Length: 2	0.00 ft Total Volume: 0.281	1 bbl		
	aboratory Name: ecovery Comments:	Laboratory Location:			

Printed: 2014.07.04 @ 22:38:35

Ref. No: 57225





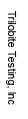
Bahm #1-21

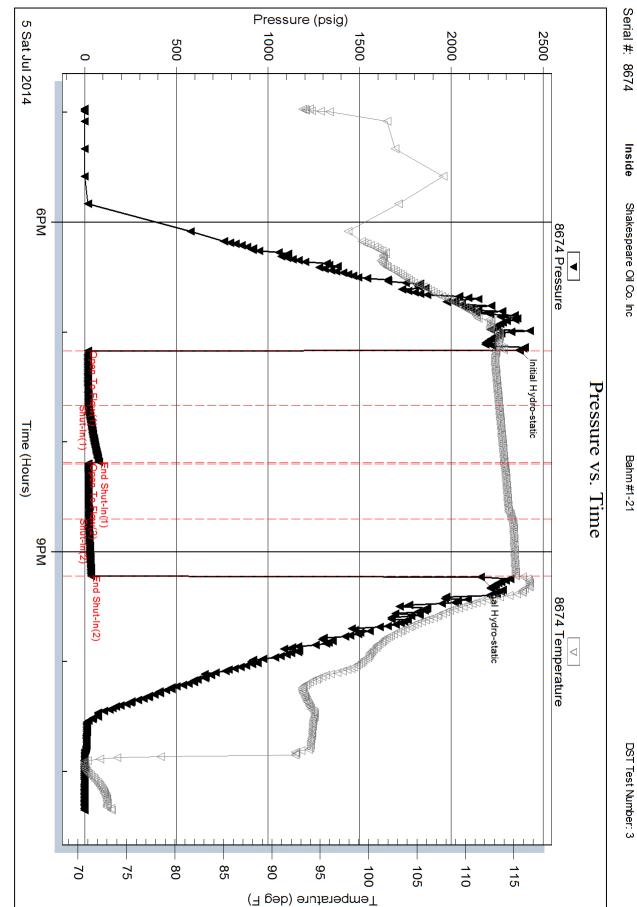
RILOBITE	DRILL STEM TES	ST REP	ORT		
	Shakespeare Oil Co. Inc		21-	16s-34w	Scott Co. KS
ESTING , IN	202 W Main St. Salem IL. 62881			hm #1-2 Ticket: 57	
	ATTN: Steve Davis				014.07.05 @ 16:58:00
GENERAL INFORMATION:					
Formation: Johnson					
Deviated: No Whipstock Fime Tool Opened: 19:10:10 Fime Test Ended: 23:21:09	ft (KB)		Tes	ter:	Conventional Bottom Hole (Reset) Will MacLean 72
Total Depth: 4720.00 ft (KB) (4720.00 ft (KB) (TVD) TVD) ble Condition: Good		Ref	erence Ele KB t	evations: 3147.00 ft (KB) 3135.00 ft (CF) to GR/CF: 12.00 ft
Serial #: 8674 Inside					
Press@RunDepth: 23.61 psig Start Date: 2014.07.05		2014.07.05	Capacity Last Cali		8000.00 psig 2014.07.05
Start Time: 16:58:00		23:21:09	Time On Time Off	Btm: 2	2014.07.05 @ 19:09:55 2014.07.05 @ 21:13:55
ISI- No Blow FF- No Blow FSI- No Blow Pressure v	. Time				RE SUMMARY
T 3674 Pressure	. Think. 	Time	Pressure	Temp	Annotation
		(Min.) 0 1 30 62	(psig) 2370.44 18.08 19.48 78.07 19.02 23.61 35.01 2160.65	(deg F) 113.95 112.91 113.45 114.00	Initial Hydro-static Open To Flow (1) Shut-In(1) End Shut-In(1) Open To Flow (2) Shut-In(2) End Shut-In(2)
5 Sat. Jul 2014 Time (Ho	SFM (rs)				
Recover	/			Ga	s Rates
Length (ft) Description	Volume (bbl)			Choke (i	inches) Pressure (psig) Gas Rate (Mcf/d
5.00 OCM 6%oil 94%m w	th a Skim of Oil on 0.07				
* Recovery from multiple tests					
Trilobite Testing, Inc	Ref. No: 57702			Drintod:	2014.07.06 @ 07:02:31

() Th		DRI	LL STEM TEST RE	EPOR1	Г	F	LUID SUMMA
	RILUBITE	Shakes	speare Oil Co. Inc		21-16s-34	w Scott Co. K	S
	RILOBITE ESTING , INC		Main St. IL. 62881		Bahm #1 Job Ticket:		DST#:3
		ATTN:	Steve Davis			2014.07.05 @ 16:	
	Ishion Information						
	el Chem		Cushion Type:			Oil API:	deg A
/ud Weight:	9.00 lb/gal		Cushion Length:		ft	Water Salinity:	ppm
iscosity:	58.00 sec/qt		Cushion Volume:		bbl		
Vater Loss:	10.37 in ³		Gas Cushion Type:				
esistivity: alinity: ilter Cake:	ohm.m 7000.00 ppm 1.00 inches		Gas Cushion Pressure:		psig		
Recovery In	formation						
	· · · · · · · · · · · · · · · · · · ·		Recovery Table		1	-	
	Leng ft		Description		Volume bbl		
		5.00	OCM 6%oil 94%m with a Skim	of Oil on	0.07	0	
	Total Length:	5	.00 ft Total Volume:	0.070 bbl			
	Recovery Com	ments:					

Printed: 2014.07.06 @ 07:02:32

Ref. No: 57702





Bahm #1-21

DST Test Number: 3



PO Box 93999 Southlake, TX 76092

Voice: (817) 546-7282 Fax: (817) 246-3361

Bill To:

Shakespeare Oil Co., Inc. 202 West Main St. Salem, IL 62881 Invoice Number: 144452 Invoice Date: Jul 15, 2014

1

Page:

Custo	mer ID	Field Ticket # Payment Terr			
Shak		64046	Net 30 Days		
Job Lo	ocation	Camp Location	Service D	ate Du	e Date
KS	1-04	Oakley	Jul 15, 20	14 8/	14/14
Quantity	Item	De	escription	Unit Price	Amount
					-

Quantity	ltem	the contract of the	Description	Unit Price	Amount
1.00	WELLNAME	Bahm #1-21			
221.00	CEMENT MATERIALS	Class A Common		17.90	3,955.90
119.00	CEMENT MATERIALS	Pozmix	INT	9.35	1,112.65
2,450.00	CEMENT MATERIALS	Gel	11- 1	1.05	2,572.50
85.00	CEMENT MATERIALS	Flo Seal		2.97	252.45
300.00	CEMENT MATERIALS	Cottonseed Hulls		0.99	297.00
586.33	CEMENT SERVICE	Cubic Feet Charge		2.48	1,454.10
1,082.25	CEMENT SERVICE	Ton Mileage Charge		2.75	2,976.19
1.00	CEMENT SERVICE	Port Collar V		2,483.59	2,483.59
45.00	CEMENT SERVICE	Pump Truck Mileage		7.70	346.50
45.00	CEMENT SERVICE	Light Vehicle Mileage		4.40	198.00
1.00	CEMENT SUPER VISOR	LaRene Wentz			
1.00	CEMENT SUPER VISOR	Kelly Gabel	AUG 1 5 2014		
	ES ARE NET, PAYABLE	Subtotal			15,648.88
	FOLLOWING DATE OF	Sales Tax			667.53
	E. 1 1/2% CHARGED	Total Invoice Am	ount		16,316.41
	TER. IF ACCOUNT IS T, TAKE DISCOUNT OF	Payment/Credit /	Applied		
\$	3,912.22	TOTAL			16,316.41
ONLY IF	<i>PAID ON OR BEFORE</i> Aug 14, 2014			105	DW 62-5 KJ
				105	i

INVOICE

ALLIED OIL & GAS SERVICES, LLC 064046

	D. # 20-8651475
REMIT TO P.O. BOX 93999	SERVICE POINT:
SOUTHLAKE, TEXA\$ 76092	SERVICE FORVIE Sakling, b
DATE 7-18-14 SEC. 21 TWP. 16 RANGE 3-72	CALLEO OUT ON LOCATION JOB START JOB FINISH
LEASE Baken WELLA 1-22 & LOCATION Peru.	ee 15, Yaus Vy is county STATE
OLD OR NEW Circle one)	
2	
CONTRACTOR Wild West Would TYPE OF JOB Part Callar	OWNER Same
HOLE SIZE 7 % T.D. CASING SIZE DEPTH	CEMENT
TUBING SIZE 2 378 DEPTH 2 4251	AMOUNTORDERED 5005/361/35
DRILL PIPE DEPTH	820 gel Yat the florsenb
TOOL POTT COlling DEPTH 24/25	_1000 1 Halls
PRES. MAX MINIMUM	COMMON_ 2215KD @17.90 3955 94
MEAS. LINE SHOE JOINT	COMMON 2215/0@17.90 3955.90 POZMIX 1195/5@ 7.85 1112.65
CEMENT LEFT IN CSG.	GEL 245045 @ 1.05 2572.50
PERFS.	CHLORIDE@
DISPLACEMENT ASSI	ASC@
EQUIPMENT	@
<i>ι</i> Λ	@
PUMPTRUCK CEMENTER haken E. which	CDCCPF 8514 @ 2.97 252.45
# 422 HELPER Kelly Gabel	@
BULK TRUCK	(LCCTH 3004 @, 99 297.00
# 890/241 DRIVER Juan Mandoz (This	
BULK ÍRUCK	<u> </u>
#DRIVER	HANDLING STA 33 CL 30 D CC
	HANDLING 586,33 + 30 2,48 1454,10 MILEAGE 24.05 ton X45 x 2,25 2926,19
REMARKS:	
Test Port Collar 12004. Open + Bread	C TOTAL
Circ. Mix 340 skicound Displa	
with water. Canat Circulater.	SERVICE
Close part osclar, Test 12004.	$\sum_{i=1}^{n} \frac{1}{2} $
Runia 4 jts, Reverse Clean.	DEPTH OF JOB 34251
	PUMP TRUCK CHARGE 2483.57 EXTRA FOOTAGE @
Flank you	MINUTON D
1000000	MANITOLD
_/ _/	
CHARGE TO: Shakespeare.	
	(186454/23 () TOTAL 1458.38
STREET	(101 AL (1.9.3))
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	@

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 contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME	
SIGNATURE	

TOTAL _____

SALES TAX (If Any)
TOTAL CHARGES 15643.28
DISCOUNT 3912.20 25% IF PAID IN 30 DAYS
ILT X.C.C.NO.



PO Box 93999 Southlake, TX 76092

Voice: (817) 546-7282 Fax: (817) 246-3361

Bill To:

Shakespeare Oil Co., Inc. 202 West Main St. Salem, IL 62881

Customer ID	Field Ticket #	Payment Terms		
Shak	64042	Net 30 Days		
Job Location	Camp Location	Service Date	Due Date	
KS1-04	Oakley	Jul 7, 2014	8/6/14	

Quantity	ltem	Description	Unit Price	Amount
1.00	WELLNAME	Bahm #1-21		
291.00	CEMENT MATERIALS	Gel	1.05	305.55
155.00	CEMENT MATERIALS	ASC	23.50	3,642.50
791.00	CEMENT MATERIALS	Salt	0.68	537.88
775.00	CEMENT MATERIALS	Gilsonite	0.98	759.50
109.00	CEMENT MATERIALS	CD-31	7.73	842.57
22.00	CEMENT MATERIALS	Defoamer	3.50	77.00
12.00	CEMENT MATERIALS	Mud Clean 0 JUL 2 1 2014	41.09	493.08
201.63	CEMENT SERVICE	Cubic Feet Charge	2.48	500.04
392.40	CEMENT SERVICE	Ton Mileage Charge	2.75	1,079.10
1.00	CEMENT SERVICE	Port Collar V	2,765.75	2,765.75
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
	ES ARE NET, PAYABLE	Subtotal		11,822.47
	FOLLOWING DATE OF	Sales Tax		542.63
INVOICE	E. 1 1/2% CHARGED	Total Invoice Amount		12,365.10
	TER. IF ACCOUNT IS T, TAKE DISCOUNT OF	Payment/Credit Applied		
	2,955.61	TOTAL		12,365.10
\$ ONLY IF	PAID ON OR BEFORE		10502	DW
	Aug 6, 2014		10502	5
				ps



Invoice Number: 144330 Invoice Date: Jul 7, 2014 Page: 1

ALLIED OIL & GAS SERVICES, LLC 064042 Federal Tax I.D. # 20-8651475

(

.

ĺ

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092	SERVICE POINT:
DATE 7-7-14 SEC. 21 TWP. 16 RANGE 34	CALLED OUT ON LOCATION JOB START JOB FINISH 513 Spin 81 Some 9150 pm
LEASE Bohm Well # 1-21 LOCATION Pana	e Y29, Y24, 3(81) COUNTY, STATE
	into
CONTRACTOR Southwind 7.0 TYPE OF JOB Production C Part Collor	OWNER James
HOLE SIZE 278 T.D. 4900	CEMENT
CASING SIZE 5/2. DEPTH 4899.22 TUBING SIZE DEPTH	
DEPTH DRILL PIPE DEPTH	2 20gel Stog Isonite 752 CD31 15 % Deformer 12 661 mudreten
TOOL PERT Collar DEPTH 2925.29	id est marchean
PRES. MAX MINIMUM MEAS. LINE SHOE JOINT 43,13	COMMON@@
MEAS. LINE SHOE JOINT 43.13 CEMENT LEFT IN CSG. 43.75	POZMIX GEL
PERFS.	GEL <u>2918@1.65</u> CHLORIDE @
DISPLACEMENT 115,48 661	ASC CBASA 1555K5@ 23,50 3642,55
EQUIPMENT	~ <u>~</u> @
	700 - 140 001.00
PUMPTRUCK CEMENTER Lakare Ered entre # 431 HELPER Andrew Forsland	CA31(PDIAS) 1494 0 22 545 40
# 481 HELPER Andrew Forsland BULK TRUCK	CD 31(CD103) 1094 @ 7.73 \$42,37 Detergeror 224 @ 3.30 77.00
# 891/ 310 DRIVER John Poore (TTJS)	@@
BULKTRUCK	(The man and the the
# DRIVER	HANDLING 20163 843 @ 248 55004
	(MILEAGE 8.72 / 45 x 2.75 /079.10
REMARKS: Place Rolf. 305 B	** (LGG453/25%) TOTAL Z
Mile 123 sto concert Down Cosang	
Displace with water.	SERVICE
Land plug 1100 2. Float Hold,	DEPTH OF JOB 4895.22.
	PUMPTRUCK CHARGE 3765.75
	EXTRA FOOTAGE
- Arcark you	MILEAGE <u>METHU 450 7.70 376.50</u> MANIFOLD Head @ 275.00
1000	MICO 450 4.90 198.00
CHARGE TO: Shafespeare Oil	@@
CHARGE TO: DECENSIONE OFF	(129109125%) 510133
STREET	$\left(\frac{1}{2}\right)$ TOTAL $\frac{1}{2}\left[\frac{64\cdot 54}{2}\right]$
CITYSTATEZIP	
	PLUG & FLOAT EQUIPMENT
	@
To: Allied Oil & Gas Services, LLC.	@
You are hereby requested to rent cementing equipment	······
and furnish comenter 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	
TERMS AND CONDITIONS" listed on the reverse side.	SALES TAX (If Any)
	TOTAL CHARGES 1, N.2
PRINTED NAME_1645 PODErt>	DISCOUNT 2.95561 2511 PAID IN 30 DAYS
1 6 01	8,866.85 Net.
SIGNATURE (A Dig KOWE	$\mathcal{O}_{+} \delta \mathcal{O}_{0}, \delta \mathcal{O}_{1} \mathcal{O}_{1}$



PO Box 93999 Southlake, TX 76092

Voice: (817) 546-7282 Fax: (817) 246-3361

Bill To:

Shakespeare Oil Co., Inc. 202 West Main St. Salem, IL 62881

Customer ID	Field Ticket #	Payment Terms Net 30 Days		
Shak	64023			
Job Location	Camp Location	Service Date	Due Date	
KS1-01	Oakley	Jun 27, 2014	7/27/14	

Quantity	Item		Description		Unit Price	Amount
1.00	WELL NAME	Bahm #1-21				
190.00	CEMENT MATERIALS	Class A Common			17.90	3,401.00
357.00	CEMENT MATERIALS	Gel	INT		1.05	374.85
536.00	CEMENT MATERIALS	Chloride	101		1.10	589.60
205.45	CEMENT SERVICE	Cubic Feet Charge			2.48	509.52
422.10	CEMENT SERVICE	Ton Mileage Charge			2.75	1,160.78
1.00	CEMENT SERVICE	Surface 🧹			1,512.25	1,512.25
45.00	CEMENT SERVICE	Pump Truck Mileage			7.70	346.50
1.00	CEMENT SERVICE	Swedge Manifold Rental			275.00	275.00
45.00	CEMENT SERVICE	Light Vehicle Mileage			4.40	198.00
1.00	EQUIPMENT OPERATOR	Paul Beaver				
				JUL 1		
ALL PRIC	ES ARE NET, PAYABLE	Subtotal				8,367.50
30 DAYS	FOLLOWING DATE OF	Sales Tax				355.78
	E. 1 1/2% CHARGED	Total Invoice Amou	nt			8,723.28
	TER. IF ACCOUNT IS	Payment/Credit Ap	plied			
		TOTAL				8,723.28
S ONL Y IF	2,091.87 PAID ON OR BEFORE Jul 27, 2014				D 10502	W 1-5

INVOICE

Invoice Number: 144087 Invoice Date: Jun 27, 2014 Page: 1

ALLIED OIL & GAS SERVICES, LLC 064023 Federal Tax I.D. # 20-8651475

ĺ

(

í

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092	SERVICE POINT: Or Kley KS
DATE 6-27-14 SEC. 21 TWP. 16 RANGE 34 C	ALLED OUT ON LOCATION JOB START JOB FINISH 2100Gun. 4100gun 4530gun
LEASE Bahrn WELL # 1-21 LOCATION PRICE	CLUID 11 STATE
OLD OR NEW (Circle one) 1/2 W 1/4	V Einto
CONTRACTOR Southwind 70 TYPE OF JOB Sucface	OWNER Same
HOLE SIZE 244 T.D. 266'	CEMENT
CASING SIZE 85/8 DEPTH 266.01	AMOUNT ORDERED 190 SKS Com 3% CC
TUBING SIZE DEPTH	24. gel
DRILL PIPE DEPTH	
MEAS, LINE SHOE JOINT	COMMON_190565 @ 14.90 3401.00
CEMENT LEFT IN CSO. 15'	POZMIX
PERFS.	CHLORIDE 536 2 @ 1.10 587.60
DISPLACEMENT 15,99 bb/ water	ASC@
EQUIPMENT	The tooch Tester Testers
PUMPTRUCK CEMENTER Paul Beaver	
# 120 HELPER Ther flose	-(10)(65,75)(20)@
BULK TRUCK	·@@
#386/241 DRIVER Juan 2 (Tws)	@
# DRIVER	@
	HANDLING 205.45 43 @ 2.48 509.52
REMARKS:	MILEAGE 7.38 405 x 45 ml x 2.75 1160.78
Mix 190 sks Com 31. CC 21/ gul Displace us was	TOTAL SERVICE
vernent did cirwlate.	Дертн ог JOB 266'
	PUMP TRUCK CHARGE 15/2.25
	EXTRA FOOTAGE MILEAGE MI HV 45 @ 7.70 346.50
- thurk 1	
100 -	MANIFOLD Swedge @ 275.00 MILV 45 @ 4.40 198.00
Shai	·
CHARGE TO: CHARGE TO:	(10xxx5.51/25&)
STREET	TOTAL 1.00205
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	
TERMS AND CONDITIONS" listed on the reverse side.	SALES TAX (If Any)
	TOTAL CHARGES 0, 001.00
PRINTED NAME <u>944 .51 9449</u>	DISCOUNT 2100 201 (25%) FPAID IN 30 DAYS
SIGNATURE de la L	C. Jos Golder

SIGNATURE SIM 15

	SHAKESPEARE OIL COMPANY, INC. BAHM #1-21 940' FSI & 2000' FEI of Section 21-T165-R34W SCOTT COUNTY, KANSAS API#15-171-21061-00-00	Geologist's Report WellSight Systems Scale 1:240 (5"=100') Imperial Measured Depth Log	Well Name:Bahm #1-21Location:940' FSL & 2000' FEL of Section 21-T16S-R34WLicense Number:API#15-171-21061-00-00Spud Date:6/26/2014Surface Coordinates:940' FSL & 2000' FEL of Section 21-T16S-R34W	Bottom Hole Coordinates: Vertical Test 5 1/2" @ 4895'	Ground Elevation (ft): 3135 K.B. Elevation (ft): 3147 Logged Interval (ft): 3750 To: RTD Total Depth (ft): RTD 4900 LTD 4900 Formation: Mississippi Type of Drilling Fluid: Chemical (Displacement complete @ 3535) Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com	Operator Company: Shakespeare Oil Company, Inc. KLN# 7311 Address: 202 W Main Salem, IL 62881	Geologist Name: Richard S.(Steve) Davis Jr. Company: Consulting Petroleum Geologist
--	---	---	---	---	--	--	---

.

.

Company: Shakespeare Oil Company, Inc. KLN# 7311 Address: 202 W Main Salem, IL 62881

Geologist

Name: Richard S.(Steve) Davis Jr. Company: Consulting Petroleum Geologist Address: 221 N. Market, Suite 268 Wichita, Kansas 67202

		Datum	-1224	-1237	-1272	-1324	-1414	-1455	-1482	-1528	-1668	-1753			
		E-Log	4371	4384	9419	1744	4561	4602	4629	4675	4815	4900			
		Sample	4373	4383	4425	4472	4563	4602	4630	4674	4817	0061			
ON TOPS	3147	Formation	Hushpuckney	LansingL	BKC	Marmaton	Pawnee	Fort Scott	Cherokee Sh	Johnson	Mississippi	Total Depth			
FORMATION TOPS	KB	Datum	1695	+676	-679	-852	-867	\$68-	-1009	-1080	-1092	-1129	-1154	111-	-1192
		E-Log	2452	2471	3826	3999	4014	4041	4156	4227	4239	4276	4301	4324	4339
		Sample	2451	1742	3824	4001	4014	4042	4156	4227	4238	4275	4303	4325	4338
		Formation	Anhydrite	B/Anhydrite	Topeka	Heebner	Toronto	Lansing	Lansing D	Muncie Creek	Lansing H	Lansing I	Lansing J	Stark	Lansing K

Reid Atkins & Tyler Lang DRILL STEM TESTING: Trilobite Testing Inc. Mud Co (displacement complete @ 35357) TI PATRIA I AA. WALLER Southwind Drilling, Rig #70 Toolpusher: Sam Staggs CONTRACTOR: Will MacLean MUD MIRU & Spud Activity WOC Drig Drig Drig DAILY PENETRATION: 7:00 AM 267 1215 2138 3016 Depth 06/26/14 06/28 06/29 06/27 06/30 10/10 -Date

CONTRACTOR: Southwind Drilling, Rig #70 Toolpusher: Sam Staggs MUD: MuD: Mud Co (displacement complete @ 3535') Reid Atkins & Tyler Lang DRILL S TEM TESTING: Trilobite Testing Inc. Will MacLean DRILL S TEM TESTING: Trilobite Testing Inc. Will MacLean ELECTRIC LOG: Weatherford Ben Weldin (DL, CDL/CML, PE, MEL & Sonic) Ben Weldin (DL, CDL/CML, PE, MEL & Sonic) CASING RECORD: Surface: 8 5/8"@ 267 w/190 sx Production: 5 1/2"@ 4895 BIT RECORD: Bit No./Size Make/Type MIT RECORD: Bit No./Size MIT R	Market for the line of th	
00 AM Activity MIRU & Spud WOC Drig Drig Drig Drig Drig Brun 5 1/2"		E E S
DAILY PENETRATION: 7:00 AM Date Depth Activ 06/26/14 0 MIRU 06/28 06/29 0 06/29 267 WOO 06/29 2138 Drig 07/01 3535 Drig 07/02 4080 Drig 07/03 4479 Drig 07/05 4679 Drig 07/05 4679 Drig 07/06 4771 Drig 07/06 4771 Drig 07/07 4900 Run	Pressure vs. Tamo	
DAILY PENE Date 06/26/14 06/27 06/29 06/29 06/29 06/29 06/29 06/29 06/29 06/29 06/29 06/29 06/29 07/01 07/02 07/05 07/05 07/05	to the formula of the	See 14

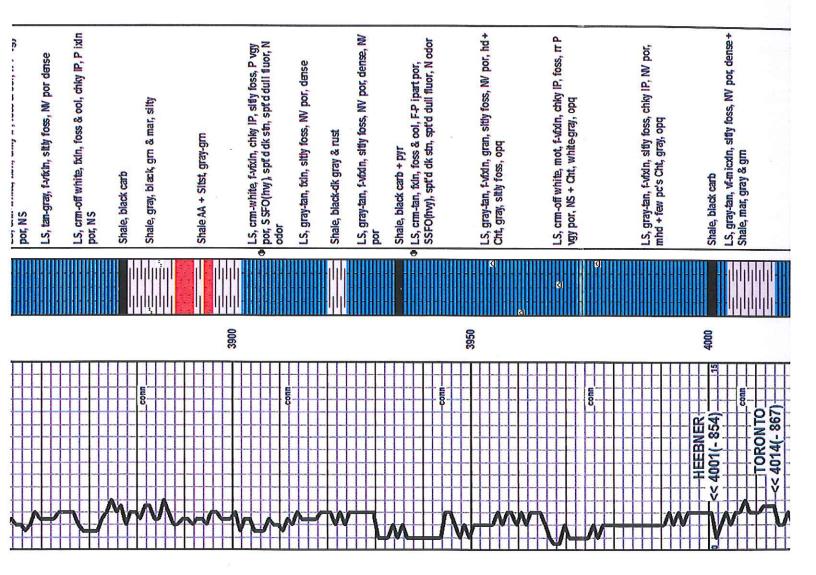
a de

Spotted Ques Dead of the state of the second second 10 Remarks **e** O 6 - 70 DST#2 4497-4541 (Marmaton B&C) Even Strst Ss OIL SHOW 000000 122.4 P. 101 Ă Geological Descriptions No WORL INTO -Rock Types Meta سسسس Mrlst عال Salt Shale Shcol Shgy S S fernsvari Å f 8 E i. 12 E Ē 2 CITE AN RECEIPTION AND DESCRIPTION 1 . and the statement of the SAOUS Depth Lithology Coal Congl Dol Gyp Igne Lmst 3750 100 Pressure VS. Tane 051#1 4436-4500 (Marmaton A) -- Children ST#3 4650-4720 (Johnson) ----ROP (min/ft) STREET BUILDER All a summer Anhy Bent Brec Cht Clyst CT'94 **ITHOLOGY** -ROP (min/ft) A A A HEADER 00000 ------Plat Dares g a ap 100 100 EX. NUMP

		9.9.9.9. S		·	
		Start 10' Wet & Dry Spi's			
20.014			LS, crm-gray, fxln, chky IP, foss & ool, P por, NS, hd	Ls, tan-gray, t-wkin, arg, sirry toss, tw por, dense Shale, black, dk gray LS, crm-white, fdin, chky IP, foss & ool, rr P vgy por, NS LS, tan-gray, f-v/kin, sitly foss, MV por dense	LS, crm-off white, fxIn, foss & ool, chky IP, P ixIn por, NS Shale, black carb Shale, gray, black, grm & mar, sifty
ENOIS	5				
	3750	3800		3850	
		0 ROP (minitin 16	TOPEKA -<		

÷

.



			Vis 54 Wt 9.0 Fil 7.2 PH 11 Chi 4,000 LCM 1# 7102/14 @ 4100	
LS, gray-tan, F.vfxdn, sifty foss, chivj IP, NV por, mhd + few pc's Cht, gray, opq Shale, black carb LS, gray-tan, vf-micxdn, sifty foss, NV por, dense + Shale, mar, gray & grm	LS, crm-off white, f-vfxln, sub ool-foss, P ixln por, NS, chky-dense LS, crm-off white, vf-micxln, sub ool, NV por, dense + Cht, white, sifty foss, opq Shale, black, dk grm LS, crm-tan, f-mxln, ool, P iool por & P ixln por, LS, crm-tan, f-mxln, ool, P iool por & P ixln por,	LS, crm-tan, Fvrfdn, chky IP, sub ool, rr P oom por, NS + Cht, white, opq LS, crm-off white, Fvrfdn, sub ool, NV por, dense + Cht, white-crm, opq LS AA wrinc Shale, black, gm & mar	LS, gray-tan, f-mxin, sub ool-foss, F-P ixin por & F-P vgy-pp por, VSSFO, spf d sh, spf d dull fluor, N odor LS, dolo, tan-crm, f-vfxin, suc, P ixin por, NS + Cht, white, opq	LS, dolo, tan-brn, f-vfxln, suc, P ixln por, NS Shale, black carb b LS, crm-tan, f-mxln, foss & ool, P ipart por, spf d æph stn, NSFO, N odor
	• • • • • • • • • • • • • • • • • • •			
000 Commented and a commented		4050		

 \mathbf{r}_{i}

LS, dolo, tan-crm, f-vtxln, suc, P ixln por, NS + 702/14 @ 4100 Cht, white, opq LS, gray-brn, F.mxIn, sitly foss, P ixin por, NS, hd + Shale, black, dk gray & mar LS, crm-tan, Fvfxln, chky, sify toss, rr Pixln por & P pp por, rrspf d stn, NSFO + Cht, gray tan, sub ool $_{\rm D}$ LS, crm-tan, f-mxIn, foss & ool, P ipart por, spf d LS, gray-white, txin, ool, P iool por, NS + LS, ft gray-tan, vf-micxin, NV por, hd & Cht, white, ool, opq LS A A + LS, whitecrm, f-wfdn, chky & arg , sub ool-foss, NV por, m hd LS, gray-tan, vf-micxin, slity foss, NV por + Cht, LS, gray-off white, vf-micxIn, sitty foss, hd, NV por + Cht, white-tan, opq-trnsl LS, crm-tan, vf-m xin, P ixin por & P pp por, SSFO, unf it sth, unf duil fluor, fnt odor + Cht, LS, gray-tan, vf-micxIn, sub ool-foss, NV por, dense LS, dolo, tan-brn, f-vtxln, suc, P ixin pot, NS LS, crm-tan, f-vfxdn, sub ool, NV por, hd LS, gray-brn, fxin foss, NV por, dense Shale, black carb (4250 spl) asph stn, NSFO, N odor Shale, black carb gray, foss, tmsl white, opq • 4250 4200 4150 4100 -con COMP. MUNCIE CREEK << 4227(-1080)] -< H-4238(-1091) -< D-4156(-1009) ROP. (mm

17)

LS, gray-brn, f-mxln, sitty foss, P ixin por, NS, hd + Shale, black, dk gray & mar LS, crm-tan, f-vfxln, chky, sitty foss, rr P ixin por & P pp por, rr spt d sth, NSFO + Cht, gray tan, sub ool LS, gray-tan, vf-micxln, sub ool-foss, NV por,		 Construction, Franch, Franchon, ar vgy port, VSSFO, spt'd- unfstm, dull fluor, fnt odor LS, tan-gray, vFmicklh, slthy foss, NV port, dense Shale, black, grm & mar LS, gray-tan, tkln, ool, F-G ooc & oom port, S-FSFO(hvy), spt'd asph sth, spt'd dull fluor, F odor LS, crm-lt gray, Fvt'dn, sub ool, NV por, dense 	Shale, black carb LS, dk brn, vikin, sitty foss, NV por, dense Shale, rust, grn & black LS, crm-off white, vf-m icxin, foss-ool, NV por, dense LS, tan-gray, fMn, ool, F-P iooi por & F-P ooc por, SSFO(hvy), spt'd stn, N fluor, foul odor LS, brm-gray, vf-micxin, foss, NV por, dense LS, brm-gray, vf-micxin, foss, NV por, dense	Shale, black carb LS, gray-bm, f-mfxln, slfty foss, NV por, dense LS, gray-bm, f-vfxln, arg, slfty foss, NV por, dense LS, gray-bm, f-vfxln, arg, slfty foss, NV por, dense
4250		4300	4350	
H	<pre>com</pre>	 CFS CFS STARK 	<pre><< 4325(-1178) </pre>	HUSHPUCKNEY << 4373(-1226) << L 338(-1236) com

						Ran 25 stand short trip prior to DST#1. Vey tight!	PIPE STRAP & SURVEY @ 4500 Strap 1.35 short to board Survey 1 1/2 deg	DST#1 4436 - 4500 (Marmaton A) 30 30 60 90	BLOW: IF Weak built to BOB in 29 min	ISI Surface return FF Weak built to 7"	FSI Surface reunti und Journal RECOVERY: 248' GIP 30' SM&GCO (4%g 93%o 3%m) 67' GO (24%a 76%o)		IHP 2246 IFP 20-57 ISIP 270 FFP 60-103 FSIP 445 FHP 2160 BHT 116 deg F	201	DST#2 4497 - 4541 (Marmaton B & C) 30 30 60 60 BLOW: IF Built to 1/4"
Lə, uair-yray, run, uu, r-r nuu pur ar r uu pur, SSFO(hny), spt'd stin, N fluor, foul odor	LS, brn-gray, vf-micxin, foss, NV por, dense	Shale, black carb LS, gray-bm, f-mfxln, sitty foss, NV por, dense	LS, gray-brm, f-vfxIn, arg, sith foss, NV por, dense	LS, crm-gray, f-m xin, chky IP, sub ool-foss, tr P pp por, spt'd stn, NSFO, N odor + Cht, gray, foss, opq	LS, crm-gray, f-m xin, sub ool-foss, few pc's P inservor NS	carb	, chky IP, foss & ool, NV por, r, gm & gray	LS, dk bm-gray, vFmicxln, sltly foss, NV por, dense		Shale, gm, gray & mar + Sitst gray	Sltst gray-grn + Shale, gray, grn, mar & blæk	Shale, mar, bm & gray + Sitt, gray	LS, gray-tan-crm, vf-fxtn, sub ool-foss, F-P ipart por, F-P vgy-pp por & few pc's P com por, S-FSFO, spt d-unf dk stn, duil spt'd fluor, V fnt odor + LS, gray-brown, fxln, ool, NV por	Most LS, crm-brn-gray, vFtxIn, sith foss, dense, tew pc's P pp por, SSFO, spt d stn, N fluor, V fnt odor	LS, tan-cm, vf-mxin, chky IP, F-P ixin por & F-P vgy-pp por, S-FSFO(it), few gas bubb, unf ft sh, unf duil fluor + LS, gray-cm, vf-fxin, sub ool-foss, P pp por, SSFO, sptd sh, duil spf d a fluor. chiw IP-dense + Shale, bm, gm, gray &
19															
4350				UUV				Å			4450	<mark>o v t</mark>	***		420
CONN -		┝┝┝	┼┤┲┼┥	┛╋	15	+++		++++	H	+++	╂╂╁╂╂	╋	╺┽╋╎╇╊┦╇┙	╺┿┽╄┾┾	╋╋╋╋╋
	,	HUSHPUCKNEY << 4373(-1226)	Control 1 (1998) -		Roptmintt		BKC						MARMATON << 4472(-1325)		CES

FSIP 445 FHP 2160 BHT 116 deg F Vis 50 Wt 9.3 Fil 9.6 PH 10.5 Chl 5,000 LCM 1# 7103114 @ 4494	DST#2 4497 - 4541 (Marmaton B & C) 30 30 60 60 BLOW: IF Built to 1/4" FF Built to 3/4" FF Built to 3/4"	месолект: 20 W&OCM (9%0 2%w 89%m) IHP 2248 IFP 16 - 19	ISIP 92 FFP 13 -20 FSIP 138 FHP 2106 BHT 112 deg F	Vis 46 Wt 9.2 Fil 11.2 P H 10 Chl 6,800 LCM 1# 7/04/14 @ 4541	a.									
 odor + LS, gray-brown, txin, ool, NV por Most LS, cmm-brn-gray, vf-txin, sitty foss, dense, few pc's P pp por, S SFO, spf d sh, N fluor, V fmt odor 	LS, tan-crm, vf-mxln, chky IP, F-P ixtn por & F-P vgy-pp por, S-FSFO(t), few gas bubb, unf It sh, unf duil fluor + LS, gray-crm, vf-fxln, sub ool-foss, P pp por, SSFO, spt'd stn, dull spt'd a fluor, chky IP-dense + Sha'e, brn, grn, gray & mar (4520 cfs spl's F odor)	Shale, mar(silty), dk gray & grn LS, gray-tan, vf-micxin, sub ool-foss, NV por, dense + Shale wool A A	 LS, brn-gray-tan, f-vixIn, ool & foss, rr P ipart por, spt'd dk stn, NSFO, most NV por, dense, V fnt odor LS, It gray-tan, micxIn, sitty foss, dense, NV por 	Shale, black carb	Shale, black, grm, gray & mar + LS, gray, vf-micxin, arg, NV por	LS, It gray-off white, vtkln, few pc's sub ool, P pp por, spf d gil \$tn, NSFO, N odor + Cht, gray ‡an, trnsi	LS, tan-off white, f-wfdn, sub ool-foss, NV por, chky IP-dense, + Cht gray-tan, trnsi	Shale, black carb + pyr LS, gray-tan, f-tvfxln, chky-arg IP, sub ool-foss, MV por + Cht, tan-brn, sitty foss, opq	Shale, black carb	LS, brn-tan, w-micxtn, ool, NV por, dense + Cht gray-tan, ool, opq-tmsi	LS, gray-bm, wf-txln, ool, F-P iool por, SS scummy res oil, spf'd stn, N fluor, N odor	LS, bm-gray, m icxin, NV por, dense	Shale, black carb LS, crm-white, f-vfxIn, chky, foss & ool, NV por,	sıt LS, gray-tan, vf-micxtn, foss & ool, гг Р vgy por,
		- - -	ر با با با با با با با با بر بر بر بر بر بر بر با با ر با بر بر بر بر بر بر بر بر ر با بر بر بر بر بر بر بر بر	2 2 2 2		() 	() - ()	Q) 	8					
and a second	4			4550					4600					
	CES		CPS Com		Pawree	-<< 4563(-1416)			FORT SCOTT 4			CHEROKFE	<pre><< 4630(1483) </pre>	

-			DST#3 4650 - 4720 (Johnson Zone) 30 30 30 30	BLOW: IF Surface died 10 min FF No blow BFCOVFRY:	5 OCM (6% 0 94% m) IHP 2370	- 19 - 23 5	FHP 2160 BHT 116 deg F Vis 58 Wt 9.3 Fil 10.4 PH 10.5 Chl 7,000 LCM 2# 7105/14 @ 4696						
LS, brm-tan, wf-micxdn, ool, NV por, dense + Cht gray-tan, ool, opq-tmsl LS, gray-brm, wf-txtn, ool, F-P lool por, SS scummy res oil, spf'd stn, N fluor, N odor	LS, brm-gray, m icxi n, NV por, dense Shale, black carb LS, crm-white, f-vfxin, chky, foss & ool, NV por,	-	Shale, black carb [Johnson Z] A LS, dk brn-gray, m icxl n, NV por, dense [30 30 30 30	Shale, bm. dk gray & gm LS, bm-gray, vtkin, foss & ool, NV por, dense + FF No blow PFCOV FRY:		Comparison of the second	Most LS, bm-gray, vf-m icx/n, stfty foss, NV por, chky IP- dense + LS, bm-gray, vf-m icx/n, stfty Vis 38 WH foss, rr P vgy-pp por, V SSFO, spt'd æph sh, N ChI 7,000 I fluor N odor & Cht, dk gray-bm, tmsl-opq 705/14 @	LS, bm-gray, vf-micxin, sitly foss, Ň por, dense + Cht, bm-gray, sitly foss, tmsl	LS, bm-off white, f-micxIn, sub ool-foss, NV por, chky IP-dense +Shale, mar, gm & blæk	LS, gray-tan, f-vitin, sitiy toss, NV por, dense + Shale, black & dk grn	LS, gray-off white, f-mxln, arg, sifty foss, P ixin por, rr spt'd stn, NS FO, N odor + LS & Shale AA	LS, gray-brn, arg, f-vfxln, sitty foss, NV por + Shale, black, dk gray, grn & mar	LS, gray-tan, f-mxln, sitty foss, rr P pp por, spf d stn, NSFO + Shale, black, gm & mar
						• • • • • • • • • •							
			0Cqt				4700		18			4750	
	CHEROKEE <				NOSNHOL S		4700					4750	

-

								Vis 56 Wt 9.3 Fi1 15.6 PH 9.5 Ch1 9,000 LCM 1# 7106/14 @ 4820	÷	12				
Snaie, biack & uk grn	LS, gray-off white, FmxIn, arg, slfy foss, P ixIn por, rr spt'd stn, NSFO, N odor + LS & Shale AA	LS, gray-brn, arg, f-vfxln, sitty foss, NV por + Shale, black, dk gray, grn & mar	LS, gray-tan, £mxin, sitty foss, rr P pp por, spf d stn, NSFO + Shale, black, grn & m ar	Most Shale vool wifew dus SS gray-cir qtz, Fvigm, mod sort, rd-sub rd, comp P ig por, NS & LS, gray-tan, FvitxIn, arg sifty foss, NV por	Most Shale, mar, gray, grn & black + LS, brn-gray, víxin, arg, NV por	Shale, mar, gray, grn & black, some silty + few clus SS, gray-grn, vfgrn, some clus V pyr, sub rd, comp, NV por, NS	SS, white-gray-cir qtz, sifty glauc, vf-mgrn, mod sort, sub rd-sub ang, fri, F-P ig por, NS + abnd pyr & Shale, black, grn, gray & mar	SS, white, vf-fgm, calc, sub rd, mod sort, P igpor, NS, sity glauc + LS, white.gray, fxin, sdy, vf-fgm, NV por	LS, whitegray, tkin, sdy, vfgrn, NV por	LS, white-crm, fdn, sdy, vf-mgrn, chly IP, NV por	LSAA+LS, crm-tan, vf-micxln, sitty sdy, NV por, dense	LS, white-crm, fidn, sdy-sub ool, f-mgrn, chky IP, NV por	LS, white-crm, f-vfxIn, sdy-sub ool, f-mgrn, chly, NV por	LS, white-crm, fdn, sdy-sub ool, f-mgrn, chky IP, NV por + LS, it gray-white, vixin, sub ool, NV por
		4750				4800					-4850			
						Com		<pre><< 4817(-1670) </pre>						Com
	* 9.													

A CONTRACTOR OF THE OWNER WATER OF THE OWNER OF THE OWNER WATER OF THE OWNER WATER OF THE OWNER WATER OF THE OWNER OWNER OF THE OWNER OWNER

Survey @ 4900, 2 deg LS, white-crm, fdn, sdy-sub ool, f-mgrn, chly IP, NV por + LS, it gray-white, vfxin, sub ool, NV por LS, white-crm, fidn, sdy-sub ool, f-mgrn, chky IP, NV por LS, white-crm, f-vtxIn, sdy-sub ool, f-mgm, chky, NV por dense 4900 4950 << 4900(-1753) SHAKESPEARE OIL CO. API#15-171-21061-00-00 7/06/2014 6:00 PM BAHM #1-21 conn -Weatherford LTD 4900(-1753) Scott County, Kansas Section 21-T16S-R34W RTD < CFS

1