ORIGINAL

ALT I I III Approved by: _____ Date: __

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1 June 2009 Form Must Be Typed Form must be Signed All blanks must be Filled

OPERATOR: License # 5135	API No. 15 - 137-20,558-00-00
Name: John O. Farmer, Inc.	Spot Description:
Address 1: P.O. Box 352	SW_SE_SW_NE_Sec1 Twp4 S. R21 East V West
Address 2:	2,450 Feet from North / South Line of Section
City: Russell State: KS Zip: 67665 + 0 3 5 2	1,880 Feet from 🗹 East / 🗌 West Line of Section
Contact Person: Marge Schulte	Footages Calculated from Nearest Outside Section Corner:
Phone: (785) 483-3145, Ext. 214	✓ NE □NW □SE □SW
CONTRACTOR: License #_ 31548	County: Norton
Name: Discovery Drilling Company, Inc.	Lease Name: Archer "A" Well #: 1
Wellsite Geologist: Randall Kilian	Field Name: (wildcat)
Purchaser:	Producing Formation: None
Designate Type of Completion:	Elevation: Ground: 2198' Kelly Bushing: 2206'
✓ New Well ☐ Re-Entry ☐ Workover	Total Depth: 3766' Plug Back Total Depth:
Oil Owsw OswD Oslow	Amount of Surface Pipe Set and Cemented at: 232.68 Feet
Gas V D&A ENHR SIGW	Multiple Stage Cementing Collar Used? Yes V No
☐ OG ☐ GSW ☐ Temp. Abd.	If yes, show depth set:Feet
	D is Alternate II completion compat circulated from
Cathodic Other (Care, Expl., etc.):	D If Alternate II completion, cement circulated from:
If Workover/Re-entry: Old Well Info as follows:	Olifeet depth to:w/sx cmt.
Operator:	
Well Name: KCC WICH	Tarilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD	Chloride content: 16,000 ppm Fluid volume: 320 bbls
Conv. to GSW	Dewatering method used: evaporation
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	QuarterSecCONFIDENTIALEast West
ENHR Permit#:	County:Pedul N: 2 9 2013
GSW Permit#:	County. 2 3 2013
5-2-11 5-6-11 Spud Date or Date Reached TD Completion Date or	KCC
Recompletion Date Recompletion Date	
Kansas 67202, within 120 days of the spud date, recompletion, workover or or of side two of this form will be held confidential for a period of 12 months if required the state of the same of the sam	ell report shall be attached with this form. ALL CEMENTING TICKETS MUST
APPRAIT	/ KCO OSS U ONLY
AFFIDAVIT I am the affiant and I hereby certify that all requirements of the statutes, rules and I	regu- KCC Office Use ONLY
lations promulgated to regulate the oil and gas industry have been fully complied	
	1 - 10124111 (0121111)
and the statements herein are complete and correct to the best of my knowledge	ge. Date: 6/29/// - 6/29//3
	ge. Date: 0/39/// - 0/39//3
	ge. Date: 0/39/// 0/37//3

Side Two

Operator Name:	John O. Far	mer, Inc.	·	Lease	Name: _	Archer "A"		Well #:1	
Sec. 1 Twp.4	s. R. <u>21</u>	East	✓ West	County	: Norte	on			
INSTRUCTIONS: Sho time tool open and clos recovery, and flow rate line Logs surveyed. At	sed, flowing and shi s if gas to surface to	ut-in pressu est, along v	ires, whether s vith final chart(;	hut-in pres	sure rea	ched static level,	hydrostatic pres	ssures, bottom l	hole temperature, fl
Drill Stem Tests Taken (Attach Additional St	heets)	⊘ Ye	es No		V L	og Formation	n (Top), Depth a	nd Datum	Sample
Samples Sent to Geolo	•	✓ Ye	es No		Nam			Тор	Datum
Cores Taken	igical out vey	□ Ye	-		Anhyd			1846'	(+360)
Electric Log Run		∠ 7€			Topek			3219'	(-1013)
			es 🗸 No			ner Shale		3416'	(-1210)
(If no, Submit Copy)			Toron			3442'	(-1236)		
ist All E. Logs Run:					Lansi	•		3460'	(-1254)
Compensated D				on	Base/			3649'	(-1443)
Log, Micro Resis	envity Log, Rac	liation C			Arbuc			3718'	(-1512)
		Reno		RECORD		ew VUsed ermediate, producti	on etc		
Purpose of String	Size Hole Drilled	Siz	e Casing (In O.D.)	Wei	ght	Setting Depth	Type of Cement	# Sacks Used	Type and Percen Additives
Surface	12-1/4"	8-5/8"		23#		232.68'	Common	150	3% C.C., 2% ge
.									
		ļ	ADDITIONAL	CEMENTI	NG / SQL	JEEZE RECORD			
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Туре	of Cement	# Sacks	Used		Type and	Percent Additives	
Shots Per Foot			RD - Bridge Plug Each Interval Per				cture, Shot, Ceme		rd Depth
TUBING RECORD:	Size:	Set At:		Packer A	At:	Liner Run:	Yes N	lo	
Date of First, Resumed F	Production, SWD or El	NHR.	Producing Meti	hod: Pumpir	ng	Gas Lift 🔲 C	Other (Explain)		
Estimated Production Per 24 Hours	Oíl	Bbls.	Gas	Mcf	Wat	ter B	bls.	Gas-Oil Ratio	Gravity
DISPOSITIO	-		f Open Hole	METHOD OF			mmingled	PRODUCT	ION INTERVAL:
Vented Sold	Used on Lease		Other (Specify)		(Submit		mit ACO-4)		



P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

DRILLER'S LOG

Operator: John O. Farmer, I	nc. Lic f	5135 Contractor: Dis	covery Drilling Co., Ir	nc. LIC#31548
P.O. Box 352			Box 763	
Russeli, KS 6766	35	Hay	ys, KS 67601	
Lease: Archer "A" # 1		Location: SW	//SE/SW/SE	
			ction 1/4S/21W	
		Nor	ton Co., KS	
Loggers Total Depth: 3760		API#15- 137	7-20,558-00-00	
Rotary Total Depth: 3766'			18 GL /2206KB	
Commenced: 5/2/20	 11	Completed: 5/7/		
	@ 232.68'W/150sks	Status: D &		
				
		 k FORMATIONS from KB)		
Surface, Sand & Shale	0'	Shale	1873'	
Dakota Sand	1077'	Shale & Lime	2437	_
Shale	1158'	Shale	2757'	
Cedar Hill Sand	1366'	Shale & Lime	3077'	-
Red Bed Shale	1575'	Lime & Shale	3382'	-
Anhydrite	1847'		RECEIVED:	
Base Anhydrite	1873'	JL	JN 3 0 2011	
STATE OF KANSAS))		KC	C WICHITA	
) ss COUNTY OF ELLIS)				
Thomas H. Alm of Disc the above and foregoing is a t		to the best of his knowledg	ie(C	ONFIDENTIAL
inc above and foregoing is a t	in to go soeroo one ear	I hmaa 4	′X _	JUN 2 9 2013
		mas H. Alm	9	KCC
Subscribed and sworn to befo	re me on <u>5-/.</u>	3-11		
My Commission expires:	8-9-11	_ / /		
(Place stamp or seal below)	•	Glenna S.	alm	
	IBLIC - State of Kansas	ary Public		
My Ap	DENNA S. ALM			

QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025 Cell 785-324-1041	Home	e Office P.O. B	ox 32 Ru	ssell, KS 67665	DPV	No. 7	5002
Date 5/2/11 Sec.	Twp.		County .	State	On Leb		6:45 PM
Lease Archer A V	Vell No.	Locati	on Logan	,4/2N,4/	2 W, 1/2	N, E	into
Contractor DISCOVERY	<u>evilling</u>	Rig #1	Owner	Çarin Kuda ilin karılı açı	<u>. V</u>		Marie Land
Type Job SwithCE	V	V	To Quality C You are her	Dilwell Cementing, I eby requested to re	nc. nt cementing ea	quipment	and furnish
Hole Size 74"	T.D. 2	<u> </u>	cementer a	nd helper to assist	owner or contrac	tor to do	work as listed.
csg. 85/8" 23#	Depth 3	(35)	Charge To	John O. Fai	T rgm	ne.	e transfer i transfer Entre i transfer i tra
Tbg. Size	Depth		Street				
Tool	Depth		City		State	1 1 	Tar in the real transfer of
Cement Left in Csg.	Shoe Joint		The above w	as done to satisfaction	and supervision	of owner	agent or contractor.
Meas Line	Displace	13 % Bbs.		ount Ordered	SU Com 3	%(L	2% ge
EQUIP	<u> </u>	**************************************		ान्द्रेशक व स्थापन सं स्था री संस्थान	(1	V. Y.	
Pumptrk No. Cementer Helper	2-1-	Here is a second	Common /				रोक्षा है।
Bulktrk & No. Driver No. Driver	ale	e i jaron de see e de ee	Poz. Mix	STOWER Letter grapher from the	• • • • • • • • • • • • • • • • • • • •		
Bulktrik P J No. Driver Oct	<u> </u>	्राष्ट्रीसार ्	Gel. √ ₹ 3	AUX ខេត្ត 5លេ មិនិស	Out the lawy	s eji	13
JOB SERVICES	& REMARKS		Calcium	S ing - Ventur	اد المادية الم معلى المادية ا	· · · · · · · · · · · · · · · · · · ·	
Remarks:			Hulis	of Arragint of		Son Same	et a let i
Rat Hole	: .		Salt				
Mouse Hole			Flowseal		ECEIVED		<u> </u>
Centralizers			Kol-Seal	JUA	1 3 0 2011	·	
Baskets			Mud CLR 4	8 10	^{3.0} 2011	1	
D/V or Port Collar		÷	CFL-117 or	CD110 CAF 38	VICUS		
Est, Circy	450 N	40000	Sand		V.11/A		
M:x 505x			Handling/	158//		G in n	
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			Guide Shoo				
			Centralizer	t the state of a		<u> </u>	
and the second	200		Baskets			· · · · · ·	
		n 4 2 7 77	AFU Insert	5 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(N. 10 1000)		
			Float Shoe	<i>7</i> 7 J. H. W	/////		
1 Mars 12			Latch Down	1			
				5 W49	CONFID	ENTI	AL
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	7 (77		Pumptrk Cl	narge Surface	301.2	~	<u></u>
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		and San		antario. Geografia	1	Discount	
Signature (tal Mayle)					Total	Charge	
	7		_				

QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025 Cell 785-324-1041	;	H	lome Office	P.O. B	ox 32 Ru	ssell, KS 670	565	No.	4829
	Sec.	Twp.	Range		County	State	Oh L	ocation	Finish
Date _5 >-//	1	4	21	Nor	text	K5			5.15 (). m.
Lease Hicher A	v	Vell No.	1	Locati	on Ingen	4/21 1	10/20	Gisto	· ·
Contractor 1) 500/	P. 15	祥 /	<i>'</i>		Owner	· · · · · · · · · · · · · · · · · · ·			·
Type Job / Dota, / P	lia	<u> </u>				Dilwell Cementing eby requested to		r equipment	and furnish
Hole Size 7		T.D.	3766	· .	cementer a	nd helper to ass	ist owner or con	tractor to do	work as listed.
Csg.		Depth			Charge To -	In tain	reve		
Tbg. Size		Depth			Street				
Tool		Depth		. *.	City		State		
Cement Left in Csg.		Shoe J	Joint		The above w	as done to satisfa	ction and supervis	ion of owner	agent or contracto
Meas Line		Displac	ce		Cement Am	ount Ordered	245-6940	1/26	1 1/17/10
	EQUIP	NENT					7	`	
Pumptrk / No. Ceme	enter	wig.			Common	· · · · · · · · · · · · · · · · · · ·			
Bulktrk No. Drive	Wal	P			Poz. Mix	:			
Bulktrk / No. Drive	n	+ +			Gel.	·····			
	RVICES	& REM	ARKS		Calcium				
Remarks:					Hulls		RECE JUN 3 11		
Rat Hole SO	•				Salt		Tin.	VED	
Mouse Hole /5					Flowseal		JUN 3 (I	2011	
Centralizers				7,	Kol-Seal		KCC 1411-	2017	
Baskets	-4.			,	Mud CLR 4	8	KCC WICH	1/74	. :
D/V or Port Collar					 	CD110 CAF 38			
151 3/9	, 	2000			Sand				
21 1260		<u> </u>		<u> </u>	Handling				· · · · · · · · · · · · · · · · · · ·
3RU 1120	101	<u> </u>		35.7	Mileage			S. Santanana and A.	
445	40			Υ.	///	FLOAT ÉC	DUIPMENT		<u> </u>
5 th 40'	10 5			Q (0)	Guide Shoe			3,000	
	10 -				Centralizer			<u></u>	
				**************************************	Baskets	95/0	wooden	01,5	
	E 63	Z 1523/2004		57. 27	AFU Inserts				
		C. principal		10.77	Float Shoe				
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	and the state of t		* .				CONFIE)EM 112	<u> </u>
	7)		N 100			NUL C	2 9 2013 -	
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	·				inneage			Tax	
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X /// //	M	101	() 	<u> </u>	1	•	Tr	otal Charge	
Signature /	1 Janes	erce (,		j		•		

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

- TERMS: Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwith-standing the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake; and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.
- ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.
- PRICES AND TAXES: All merchandise listed in "QUALITY'S" current price shall schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.
- TOWING CHARGES: QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.
- PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.
- DEADHAUL, CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.
- SERVICE CONDITIONS AND LIABILITIES: 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:
- (A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:
- (B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.
- 2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employ-
- 3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.
- WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.
 - 2. More specifically:
- (A) Nothing in this contract shall be constructed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.
- (B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.



Prepared For: John O Farmer inc

PO Box 352 Russell, KS 67665

ATTN: Randy Killian

1-4s-21w Norton, KS

Archer A - 1

Start Date: 2011.05.05 @ 18:15:00

End Date: 2011.05.06 @ 00:40:30

Job Ticket #: 042002 DST #: 1

JUN 3 6 2011 KCC WICHITA

Trilobite Testing, Inc PO Box 1733 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620 CONFIDENTIAL
JUN 2 9 2013
KCC



John O Farmer Inc

Archer A - 1

PO Box 352 Russell, KS 67665

1-4s-21w Norton, KS Job Ticket: 042002

DST#:1

ATTN: Randy Killian

Test Start: 2011.05.05 @ 18:15:00

GENERAL INFORMATION:

Time Tool Opened: 20:04:30

Time Test Ended: 00:40:30

Formation:

Toronto - LKC "D"

Deviated:

Мо

Whipstock:

ft (KB)

Test Type:

Conventional Bottom Hole

Tester:

James Winder

Unit No: 46

3408.00 ft (KB) To 3515.00 ft (KB) (TVD)

Interval:

Reference Bevations:

2206.00 ft (KB)

Total Depth:

3515.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter:

7.88 inches Hole Condition: Fair

KB to GR/CF:

8.00 ft

Serial #: 8366 Press@RunDepth: Inside

48.45 psig @

3409.00 ft (KB)

2011.05.06

Capacity:

8000.00 psig

Start Date:

2011.05.05

End Date:

Last Calib.:

2011.05.06

Start Time:

18:15:05

End Time:

00:40:29

Time On Btm

2011.05.05 @ 20:01:30

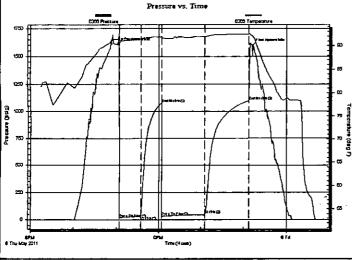
Time Off Btm

2011.05.05 @ 23:12:00

TEST COMMENT: IF: Blow built to 2 1/2"

iSt. No blow back FF: Blow built to 2 1/2"

FSI: No blow back



	PRESSURE SÚMMARY									
1	Time	Pressure	Temp	Annotation						
	(Min.)	(psig)	(deg F)							
	0	1607.67	91.34	Initial Hydro-static						
	3	15.69	91.09	Open To Flow (1)						
	33	33.04	91.43	Shut-In(1)						
4	63	1077.97	91.91	End Shut-In(1)						
ээтэ	63	33.89	91.63	Open To Flow (2)						
Table 1	124	48.45	91.91	Shut-In(2)						
Temperature (deg F)	186	1097.29	92.45	End Shut-In(2)						
"	191	1596.22	92.11	Final Hydro-static						
ı										
	• -									
٠	ن _ا , خ									
	,									

Recovery Length (ft) Description Votume (bbl) 75.00 Mud 100% 0.77

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



TOOL DIAGRAM

John O Farmer Inc

PO Box 352 Russell, KS 67665 1-4s-21w Norton, KS

Job Ticket: 042002

Tool Weight:

Archer A - 1

D\$T#:1

ATTN: Randy Killian

Test Start: 2011.05.05 @ 18:15:00

Tool Information

Drill Collar:

Drill Ripe: Heavy Wt. Pipe: Length:

Length: 3391.00 ft Diameter: Length:

0.00 ft Diameter: 31.00 ft Diameter:

3.80 inches Volume: 47.57 bbl 0.00 inches Volume: 0.00 bbl 2.25 inches Volume: 0.15 bbl Total Volume: 47.72 bbl

Weight set on Packer: 30000.00 lb Weight to Pull Loose: 70000.00 lb Tool Chased

2500.00 lb

5.00 ft

Drill Pipe Above KB: Depth to Top Packer:

34.00 ft 3408.00 ft

ft

String Weight: Initial 54000.00 lb Final 55000.00 lb

Depth to Bottom Packer: Interval between Packers: 107.00 ft Tool Length:

127.00 ft

2 Diameter:

6.75 inches

Tool Comments:

Number of Packers:

Tool slid 5' to bottom before opening - No mud loss

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut in Tool	5.00			3393.00		
Hydraulic tool	5.00			3398.00		
Packer	5.00			3403.00	20.00	Bottom Of Top Packer
Packer	5.00			3408.00		
Stubb	1.00			3409.00		
Recorder	0.00	8366	Inside	3409.00		
Recorder	0.00	8320	Outside	3409.00		
Perforations	8.00			3417.00		
Blank Spacing	95.00			3512.00		
Bullnose	3.00			3515.00	107.00	Bottom Packers & Anchor



FLUID SUMMARY

John O Farmer Inc

Archer A - 1

PO Box 352 Russell, KS 67665 1-4s-21w Norton, KS

Job Ticket: 042002

DST#:1

ATTN: Randy Killian

Test Start: 2011.05.05 @ 18:15:00

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Cushion Type:

Oil API:

deg API

Mud Weight: Viscosity:

77.00 sec/gt

Cushion Length: **Cushion Volume:** ft bbl Water Salinity:

ppm

Water Loss:

7.58 in³

Gas Cushion Type: Gas Cushion Pressure:

psig

Resistivity: Salinity:

ohmm 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbi
75.00	Mud 100%	0.770

Total Length:

75.00 ft

Total Volume:

0.770 bbl

Num Fluid Samples: 0

Num Gas Bombs: Laboratory Location: Serial #.

Laboratory Name:

Recovery Comments:

