

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1093103

Form ACO-1 June 2009 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 North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil       WSW       SWD       SIOW         Gas       D&A       ENHR       SIGW         OG       GSW       Temp. Abd.         CM (Coal Bed Methane)       Cathodic       Other (Core, Expl., etc.):	Amount of Surface Pipe Set and Cemented at:       Fee         Multiple Stage Cementing Collar Used?       Yes         If yes, show depth set:       Fee         If Alternate II completion, cement circulated from:       feet depth to:         w/sx cmt
If Workover/Re-entry: Old Well Info as follows:	
Operator: Well Name:	<b>Drilling Fluid Management Plan</b> (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Deepening Re-perf. Conv. to ENHR Conv. to SWD Conv. to GSW	Chloride content: ppm Fluid volume: bbls Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
	Operator Name:
SWD Permit #:	Lease Name: License #:
ENHR Permit #:	Quarter Sec TwpS. R East West
GSW Permit #:	County: Permit #:
Spud Date or         Date Reached TD         Completion Date or           Recompletion Date         Recompletion Date         Recompletion Date	

#### 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
Letter of Confidentiality Received
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II Approved by: Date:

	Side Two	1093103
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional She	eets)	Yes No	L	0	n (Top), Depth an	d Datum Top	Sample Datum
Samples Sent to Geolog	gical Survey	Yes No		-			
Cores Taken Electric Log Run Electric Log Submitted E (If no, Submit Copy)	Electronically	YesNoYesNoYesNo					
List All E. Logs Run:							
		CASING		ew Used			
		Report all strings set	-conductor, surface, inte	ermediate, producti	ion, 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 / SQUEEZE RECORD

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Shots Per Foot		PERFORATION Specify Fo		RD - Bridge P Each Interval I		e			ement Squeeze Record d of Material Used)	Depth
TUBING RECORD:	Si	ze:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed F	Product	ion, SWD or ENH	۶.	Producing N	1ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
			1							
DISPOSITIC	ON OF (	GAS:			METHOD	OF COMPLE	TION:		PRODUCTION INTER	RVAL:
Vented Sold		Used on Lease		Open Hole	Perf.	Dually (Submit)		Commingled (Submit ACO-4)		
(If vented, Sub	mit ACC	)-18.)		Other (Specify)						

# QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

No. 942 Home Office P.O. Box 32 Russell, KS 67665 Phone 785-483-2025 Cell 785-324-1041 County Finish 17571110 1757707 On Location Twp. Range State Sec. 51 1O YX CC Date 妬わ Т 21 massel -04 E 13 29 Well No. Location Lease 10 12 < 11 11-13 SUR Owner acloss OLE Contractor ÷. To Quality Oilwell Cementing, Inc. tore Type Job You are hereby requested to rent cementing equipment and furnish ४प 4 cementer and helper to assist owner or contractor to do work as listed. 2 T.D. Hole Size Charge ÷Уч 2891 Depth 10.50  $\mathcal{B}$ Csg. Â То Depth Tbg. Size Street Depth Tool City State  $\supset$ Shoe Joint The above was done to satisfaction and supervision of owner agent or contractor. Cement Left in Csg 14 BLS £ Cement Amount Ordered . mmmm Displace Meas Line Ŧ Yy B 266 EQUIPMENT Cementer No. Common Pumptrk Helper Driver No. 4 Poz. Mix Bulktrk 17 Driver Driver No. Gel. Bulktrk Driver **JOB SERVICES & REMARKS** Calcium EMERT . ICUINTO Remarks: Hulls Salt Rat Hole Flowseal Mouse Hole Kol-Seal Centralizers Mud CLR 48 **Baskets** D/V or Port Collar CFL-117 or CD110 CAF 38 Sand Handling · · · · Mileage FLOAT EQUIPMENT Guide Shoe Centralizer **Baskets** £. ġ **AFU** Inserts Float Shoe Latch Down ý, Υ., **Pumptrk Charge** Mileage Tax Discount X Signature Total Charge

# QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Home Office P.O. Box 32 Russell, KS 67665

Phone 785-483-2025

No. 949

Lease Sit K ( Well No. 3: A Location Sit An Ks /4 PA Sit And Charles And Contractor Rough H A Depth A Depth To Quality Oliwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish to generate and helper to assist owner or contractor to do work as listed. Csg. 53 *** 14% Mt to Depth 3441 *** Charge V (A C S 1 *** A P (A C C Cement A molepler to assist owner or contractor to do work as listed. Csg. 53 **** 14% Mt to Depth 3441 **** Charge V (A C S 1 *** A P (A C C Cement A molepler to assist owner or contractor to do work as listed. Csg. 53 ***********************************	Cell 785-324-1041				· .			e e e e e e e e e e e e e e e e e e e			
Base From Strike (C)     Well No. 31 - 2     Location Strike (K)     As From Strike (K)       Contractor     Pore Job From Strike (K)     To Quality Clived Comenting, Inc.     To Quality Clived Comenting, Inc.       Type Job From Strike (K)     TD.     Strike (K)     To Quality Clived Comenting, Inc.       Type Job From Strike (K)     TD.     Strike (K)     To Quality Clived Comenting, Inc.       Type Job From Strike (K)     TD.     Strike (K)     To Quality Clived (C)       Cog Strim Into Network (K)     Depth     Stredt     Stredt       Tool     Depth     Stredt     Stredt     Stredt       Tool     Stredt     Stredt     Stredt     Stredt       Beak     Depth     Stredt     Stredt     Stredt       Bulkitk     No     Depth Stredt     Common     Stredt       Bulkitk     No     Depth Stredt	C. ma	Sec.		Range	0	County	State		On Location	Finish	H
Contractor Reveal to the second secon	Date X JIIL	31	) [7]	)0	K	SS	KS	1994 - A		12:00	AN
Type Job       F. d. Manner         Hole Size       T.D.       Construction         Size       T.D.       Construction         Size       Depth       Size         Tool       Depth       Size         Depth       Size       Size         Tool       Depth       Size         Depth       Size       Size         Displace       Size       Size         Bulkrk Size       Common       Size         Bulkrk Diver       Common       Size         Displace       Size       Column         Baskets       M	Lease Sieker	v	Vell No.	31.2	Locatio	on Sillice	K. Ke	- 14	ype on dy	NE Erty	wifter
Operation 1       Control 1       Control 1       You are hereby requested to rent comment and furnish do work as listed.         Origination 1       Control 1       Con	Contractor Ray	61	42		214 A.	Owner	, .				
Hole Size       // 1/2 X       T.D.       CORECT / 3/2 Y       Charge / 1/2 X       Provementer and helper to assist owner or contractor to do work as listed.         Cag. Size       Depth       Street       J/1       Street       J/1         Tool       Depth       Street       J/1       Street       J/1         Common Lett in Cag. 1 Street       Depth       Charge       J/1       Street       J/1         Common Lett in Cag. 1 Street       Depth       Common Contractor.       Street       J/1       Street       J/1         Pumptrx Q       No       Depth       Common       Common.       J/1       J/1 <td>Type Job Finding</td> <td>in n</td> <td></td> <td></td> <td></td> <td>To Quality Oil</td> <td>well Cemen</td> <td>ting, Inc.</td> <td>comenting equipmen</td> <td>t and furnish</td> <td></td>	Type Job Finding	in n				To Quality Oil	well Cemen	ting, Inc.	comenting equipmen	t and furnish	
The Size     Depth     Street	Hole Size	£	T.D.	BOOLDAY'	33474	cementer and	helper to a	ssist owr	her or contractor to d	o work as list	ted.
The Size     Depth     Street	Csg. 54" 145 1	Hus	Depth	33441		Charge	ACSL	Fin	PIQU		
Dol     Depth     City     State       Cement Left in Csg.     Shoe Joint     1.5     O.1     The above was done to satisfaction and supervision of owner agent or contractor.       Meas Line     Displace     7     RC     Cement Amount Ordered     Store     Rest       Pumptix     No     Common.     Common.     Common.     Common.       Buiktk     No     Driver     Common.     Common.     Common.       Baskets     Hulis     Real Allole     Sait     Mouse Hole     Common.       Centralizors     // / / / / / / / / / / / / / / / / / /	Tbg. Size	· · ·	Depth			e sta				,,	· · ·
Measure     Displace     Style     Cement Amount Ordered     Constraint       Pumptrk     No     Common     Style     Style     Style       Pumptrk     No     Common     Style     Style     Style       Bulktrk     No     Differ     Common     Style     Style       JOB SERVICES & REMARKS     Calcium     Calcium     Style     Style       Remarks:     Hulis     Style     Style     Style     Style       Baskets     //     Mod CLE 48     9     Style     Style       DV or Port Collar     Common     Style     Style     Style     Style       Style     Style     Style     Styl	Tool		Depth						State		
EQUIPMENT     Sold Standard Stream Mark       Pumptik Q     No. Comenter Tract     Common       Bulktrk     No. Divert     Poz. Mix       Bulktrk     No. Divert     Poz. Mix       Bulktrk     No. Divert     Gel.       JOB SERVICES & REMARKS     Gel.       Bulktrk     Job SERVICES & REMARKS       Remarks:     Hulis       Rat Hole     Satt       Mouse Hole     Flowseal       Centralizers     ////////////////////////////////////	Cement Left in Csg.   <		Shoe J	oint 15, <b>b</b>	¢Q'	The above was	s done to satis	sfaction ar	nd supervision of owner	r agent or conti	ractor.
Pumptrk 9       No.       Cerements 7 (2 + 1)       Common         Bulktrk 9       No.       Diver 7 (2 + 1)       Poz. Mix         Bulktrk 9       No.       Diver 7 (2 + 1)       Gel.         JOB SERVICES & REMARKS       Calcium         Remarks:       Hulls         Rat Hole       Sait         Mouse Hole       Flowseal         Centralizers       //////         DAV or Port Collar       CFL-117 or CD110 CAF 38         DAV or Port Collar       CFL-117 or CD110 CAF 38         DAV or Port Collar       OFL-111 SQ Mileage         No.       Calcium, 4 and 10 an	Meas Line	<u> </u>	Displac	e <u>5</u> ]	RIC	Cement Amo	unt Ordered	150	Se Cornes	man 190	1/0
Pumptrk Y       Integrat / (CUC),       Common.         Bulktrk No.       Driver CUC /       Poz. Mix         Bulktrk No.       Driver CUC /       Poz. Mix         Bulktrk No.       Driver CUC /       Gel.         JOB SERVICES & REMARKS       Calcium         Remarks:       Hulls         Rat Hole       Salt         Mouse Hole       Flowseal         Centralizers D       // (Cuc),         Mud CLR 48       9         DV or Port Collar       CH_117 or CD110 CAF 38         DU or Port Collar       CH_117 or CD110 CAF 38         DU or Port Collar       CH_11 (Structure)         Sand       Sand         Salt       Gelee         Salt       Charter Viet Handling         Mud CLR 48       9         DV or Port Collar       CH_117 or CD110 CAF 38         DL or Jabin       Place Viet Manufale         Salt       Sand         Salt       Sand         Salt       Sand         Salt       Salt         Concert       Place Viet Manufale         Salt       Charter Viet Manufale         Salt       Centralizer         Salt       Float Shoe			IENT			Soull 5%	6 Sam	10 -	Stonat Mad	Choing U	ζ.
Bulkitk     Driver     Poz. Mix       Berliktk     Oniver     Gel.       JOB SERVICES & REMARKS     Calcium       Remarks:     Hulls       Rat Hole     Salt       Mouse Hole     Flowseal       Centralizers     Mud CLR 48       OV or Port Collar     CFL-117 or CD110 CAF 38       Discourt     Chentalizer       Discourt     Cruticitien       Sand     Sand       Discourt     Cruticitien       Sand     Cruticitien       Sand     Cruticitien       Contralizer     FLOAT EQUIPMENT       Cancer     Sand       Ca	Pumptrk / Helper	- 1(	ave	(		Common	· · · · · · · · · · · · · · · · · · ·	· · ·	.J · · ·		
Butkth, C., M. Driver, K. J. C. B.     Gel.       JOB SERVICES & REMARKS     Calcium       Remarks:     Hulls       Rat Hole     Salt       Mouse Hole     Flowseal       Centralizers     Mod CLR 48       DV or Port Collar     CFL-117 or CD110 CAF 38       DV or Port Collar     CFL-117 or CD110 CAF 38       D. J. Dr. M. J. C. C. M. Mandling     Sand       D. J. Dr. M. J. C. C. M. Mandling     Sand       D. J. Dr. M. J. C. C. M. Mandling     Sand       D. J. Dr. M. J. C. C. M. Mandling     Sand       D. J. Dr. M. J. C. C. M. Mandling     Sand       D. J. Dr. M. J. C. C. M. Mandling     Sand       D. J. Dr. M. J. C. S. M. Handling     Sand       D. J. Dr. M. J. C. S. M. Handling     Sand       D. J. Dr. M. J. C. S. M. Handling     Sand       D. J. Dr. M. J. C. S. M. Handling     Sand       D. J. Dr. M. J. C. S. M. Handling     Sand       D. J. Dr. M. M. C. S. M. Handling     Sand       D. J. Dr. M. M. S. S. M. Handling     Sand       D. J. Dr. M. M. S. S. M. Handling     Sand       D. J. J. Z. S. M. M. M. S. M. M. S. M. M. M. S. M. Handling     Sand       L. L. H. S. M. C. S. M. Handling     Sand       L. L. H. S. M. C. S. M. Handling     Sand       Lift M. S. M. M. S. M.	Bulktrk 🔿 Driver	LCC	<del>1/</del>			Poz. Mix	7	· .			
Remarks:     Hulls       Rat Hole     Salt       Mouse Hole     Flowseal       Centralizers     ////////////////////////////////////		Ri	K-			Gel.			· · · · · · · · · · · · · · · · · · ·		
Rat Hole     Salt       Mouse Hole     Flowseal       Centralizers     // ( // Kol-Seal       Baskets     // Mud CLR 48       OV or Port Collar     CFL-117 or CD110 CAF 38       D/V or Port Collar     CFL-117 or CD110 CAF 38       D/V or Port Collar     CFL-117 or CD110 CAF 38       D/V or Port Collar     CFL-117 or CD110 CAF 38       D/V or Port Collar     CFL-117 or CD110 CAF 38       D/V or Port Collar     CFL-117 or CD110 CAF 38       D/V or Port Collar     Guide Shoe       H., V 4.     Shot down       Guide Shoe     Guide Shoe       K-1 Collar     Centralizer       Charliser     Centralizer       K-1 Collar     Centralizer       Charliser     Float Shoe       Lift Are Shot down     Latch Down       Lift Are Shot     Float Shoe       Lift Are Shot     Float Shot       Lift Are Are Shot     Float Shot       Discount     Float Shot	JOB SEI	RVICES	& REMA	RKS		Calcium		• .			
Mouse Hole     Flowseal       Centralizers     //       Baskets     //       Baskets     //       DV or Port Collar     CFL-117 or CD110 CAF 38       D.V. or Port Collar     CFL-117 or CD110 CAF 38       D.V. or Port Collar     CFL-117 or CD110 CAF 38       D.V. or Port Collar     CFL-117 or CD110 CAF 38       D.V. or Port Collar     CFL-117 or CD110 CAF 38       D.V. or Port Collar     CFL-117 or CD110 CAF 38       D.V. or Port Collar     CFL-117 or CD110 CAF 38       D.V. or Port Collar     CFL-117 or CD110 CAF 38       D.V. or Port Collar     CFL-117 or CD110 CAF 38       D.V. or Port Collar     Sand       D.V. or Port Collar     CFL-117 or CD110 CAF 38       D.V. or Port Collar     CFL-117 or CD110 CAF 38       D.V. or Port Collar     CHL or Port Collar       D.V. or Port Collar     CHL or Port Collar       D.V. or Port Collar     CHL or Port Collar       Configure     Guide Shoe       CHL or Port Collar     Baskets       Discourt     Contralizer       CHL or Port Collar     Eleastric       Discourt     Float Shoe       Lach Down     Interface       Discourt     Pumptrk Charge	Remarks:		· · · · · · · · · · · · · · · · · · ·			Hulls					
Centralizers       //       Kol-Seal         Baskets       /       Mud CLR 48       9         DN or Port Collar       CFL-117 or CD110 CAF 38       9         D. d. mark       Created and the control of the control o	Rat Hole					Salt					
Baskets     Mud CLR 48     9       D/V or Port Collar     CFL-117 or CD110 CAF 38       D/V or Port Collar     CFL-117 or CD110 CAF 38       D/V or Port Collar     CFL-117 or CD110 CAF 38       D/V or Port Collar     CFL-117 or CD110 CAF 38       D/V or Port Collar     CFL-117 or CD110 CAF 38       D/V or Port Collar     CFL-117 or CD110 CAF 38       D/V or Port Collar     CfL-117 or CD110 CAF 38       D/V or Port Collar     Muld CLR 48       D/V or Port Collar     Sand       D/V or Port Collar     Muld CLR 48       D/V or Port Collar     CfL-117 or CD110 CAF 38       D/V or Port Collar     Muld CLR 48       Concurr     Sand       Concurr     Sand       Concurr     Sand       Concurr     Guide Shoe       Concurr     Guide Shoe       Concurr     Guide Shoe       Concurr     Sand       Lift Markets     Float Shoe       Lift Markets     Muld CLR 48       Pumptrk Charge     Mileage	Mouse Hole					Flowseal			· · · · · · · · · · · · · · · · · · ·		
Daskets     /     Mud CLR 48       DV or Port Collar     CFL-117 or CD110 CAF 38       DV. or Port Collar     CFL-117 or CD110 CAF 38       DV. or Port Collar     Sand       DV. or Port Collar     Sand       DV. or Port Collar     CFL-117 or CD110 CAF 38       DV. or Port Collar     Sand       DV. or Port Collar     Sand       DV. or Port Collar     CfL-117 or CD110 CAF 38       DV. or Port Collar     Mula CLR 48       DV. or Port Collar     Sand       DV. or Port Collar     Sand       DV. or Port Collar     Mula CLR 48       DV. or Port Collar     Sand       DV. or Port Collar     Sand       DV. or Port Collar     Mula CLR 48       Sand     FLOAT EQUIPMENT       Cemeral     Store       Cemeral     Store       Centralizer     Contralizer       Place     AFU Inserts       Float Shoe     Internet       Lift     Store       Lift     Store       Pumptrk Charge     Mileage	Centralizers 2, 1/	<u> </u>	1 .	N. 		Kol-Seal		<u> </u>			
Sand     Sand       Sand     Sand <t< td=""><td>Baskets /</td><td></td><td>· · ·</td><td></td><td></td><td>Mud CLR 48</td><td></td><td></td><td><b>a</b></td><td></td><td></td></t<>	Baskets /		· · ·			Mud CLR 48			<b>a</b>		
Dian 500 pair mut (pr., ph., rail     Handling       Note w/30 is plan many choic (Missinge       Hard Str Castric + mission (SSN)       FLOAT EQUIPMENT       Centralizer       Shot daw       Prime (Shot daw       Pumptrk (Charge       Prime (Shot daw       Prim (Shot daw       Prime (Shot daw </td <td>D/V or Port Collar</td> <td></td> <td></td> <td></td> <td></td> <td>CFL-117 or C</td> <td>D110 CAF 3</td> <td>38</td> <td></td> <td></td> <td>•</td>	D/V or Port Collar					CFL-117 or C	D110 CAF 3	38			•
hole     w/30 m     films     marschale     ///SS Mileage       H. K. L. St. (Costre, Fronty 105 SX     FLOAT EQUIPMENT       Concert     Shul deau     Guide Shoe       Float Shoe     Centralizer     Centralizer       Mileage     AFU Inserts       Float Shoe     Image       Lift     pressent     Guide Shoe       Pumptrk Charge     Mileage       Mileage     Tax	Die on Patte	<u>~, b</u>	in the X	Cicula	Lon	Sand	· · · · · · · · · · · · · · · · · · ·	- 19 <b>8</b>			
H. K. L. Ski Castric + mix 10 S. Sv FLOAT EQUIPMENT Generic Shuldward washing Guide Shoe Plan Relaced to the Centralizer (Calibre's Plan Baskets 1 Released to held Lift pressure 600 plant Latch Down 1 Latch Down 1 Latch Down 1 Pumptrk Charge Mileage Tax Discount	putarp 500 gal	min )	$(C)_{c}$	a, phic	. Karta	Handling			<u> </u>		
H. V. H.     FLOAT EQUIPMENT       Congri Shul duwing Gaile Shoe     Guide Shoe       Element Superior Contralizer     Centralizer       Float Shoe     Baskets       If Element Held     AFU Inserts       Float Shoe     Float Shoe       Lift pressure     Guide Shoe       Pumptrk Charge     Mileage       Mileage     Tax		plu	$\alpha m$	mischole	1150	Mileage		ый ни 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995	n an an an Arrange a' an Arrange a Arrange and Arrange and Arr Arrange and Arrange and Arr		
Place     Centralizer     Called       Signature     Baskets     Image       Intervention     Float Shoe     Image       Intervention     Image     Image       Image     Tax     Discount		-V .	1) • • • • •	mix lo	<u>s sv</u>		FLOAT I	EQUIPMI	ENT		
Baskets     Baskets       Iceleaned     AFU Inserts       Float Shoe     Float Shoe       Lift     pressure       Local     147.00       Pumptrk Charge     Mileage       Tax     Discount	concrit, she	1 du		Lance Strange	<u>. e p</u>	Guide Shoe			nasi di sene proge Senegori di		,
Ice lemical + held     AFU Inserts       Float Shoe     Float Shoe       Lift pressure     Goo p       Latch Down     Latch Down       Local plug + 147 mo +     Pumptrk Charge       Mileage     Tax       Discount     Discount			L <u>. ()</u>	1 Burgerin	. (	Centralizer	<u>6 +</u> 0	<u>ile</u>	<u>k</u>	· · · · ·	
Float Shoe       Lift nessure       Local plug to / 1/2 mont       Pumptrk Charge       Mileage       Tax       Discount	with 31 12	15	$\frac{\partial \mathcal{O}(u)}{\partial u}$	<u></u>		Baskets	1	•			
Lift niessua     600 µ     Latch Down       Load plug to / 100 ±     100 ±       Pumptrk Charge       Mileage       Tax       Discount	released + h		· · · · · · · · · · · · · · · · · · ·	<u>, , , , , , , , , , , , , , , , , , , </u>	<u>.</u>	AFU Inserts		<u></u>		· · · · · · · · · · · · · · · · · · ·	<u></u>
Pumptrk Charge       Mileage       Tax       Discount	T 7 1 1 1 1 1					Float Shoe	<u>_  </u>				
Pumptrk Charge	Lift pressu	<u>e4.</u>				Latch Down		5357			
Pumptrk Charge       Mileage       Tax       Discount	Land plug	1-2	1 07	tt cr	2 - 4 						
Mileage Tax Discount				- 1473 (M. 18) 	<u>s sil</u>					<u> </u>	
Tax Discount		2016 2016				Pumptrk Cha	rge				
Discount			•••• •••••			Mileage	 				
Discount				:		la de la composición de la composición Composición de la composición de la comp					
Signature / Vorue & coolie Total Charge		harmonia		· · ·				•	Discount		
	Signature / Dore	Bun	di	21. 					Total Charge		

## QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 949

Cell 785-324-1041 County State On Location Finish Sec. Twp. Range 10 1 OO 2 Dh Date MAN Location on 1C. A. 3. 1 0 0 1 Well No 1 ch Lease И Contractor Owner To Quality Oilwell Cementing, Inc. Type Job You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. 234 T.D. Hole Size Charge New Depth 141 0 5 FIAPICIL Csa To -) / Depth Tbg. Size Street Tool Depth City State The above was done to satisfaction and supervision of owner agent or contractor. Shoe Joint Cement Left in Csg **Cement Amount Ordered** Displace Meas Line XUX 一件小 EQUIPMENT South 10.0 Cementer No. Common Pumptrk Helper Driver No. Poz. Mix Bulktrk Driver Driver No. Gel. Bulktrk Driver U **JOB SERVICES & REMARKS** Calcium Hulls **Remarks:** Salt' Rat Hole Flowseal Mouse Hole Kol-Seal Centralizers a Mud CLR 48 **Baskets** D/V or Port Collar CFL-117 or CD110 CAF 38 Sand Handling Mileage FLOAT EQUIPMENT 5 5 Guide Shoe Centralizer < wate SC e **Baskets AFU** Inserts 191 Float Shoe 600 Latch Down 0 1 (717) inite: Pumptrk Charge Mileage Tax A CAN BE SERVICE AND A PARTY OF Discount X Signature Total Charge

TIN.	RILOBITE	DRILL STEM TE	ST REPO	ORT			
上し	Lanautomperature	Quest Energy		31 1	19S 10W	/ Rice Ks.	
用	ESTING , INC	2732 N. Reese RD.		#31	-2 Sieke	er	
		Brookville, Ks. 67425+9812		Job	Ticket: 49	393 DST#: 1	
		ATTN: Ken Wallace		Test	Start: 20	12.08.19 @ 10:00:00	
GENERAL	INFORMATION:	Contraction of the second					
	Arbuckle No Whipstock: ened: 11:07:30 led: 14:50:00	ft (KB)		Test Test Unit	er: 7	Conventional Bottom Hol Froy Leiker #44	e (Initial)
nterval: <sup>°</sup> otal Depth: <del>I</del> ole Diameter	3264.00 ft (KB) To 32 3283.00 ft (KB) (Th inchesHole			Refe	erence Ele KB te	vations: 1792.00 1785.00 o GR/CF: 7.00	ft (CF)
Serial #: 8 Press@RunD start Date: start Time: EST COM	MENT: IF 15 Very Stron IS 30 Bled off fo	<ul> <li>ft (KB)</li> <li>End Date:</li> <li>End Time:</li> <li>g Blow Off Bottom in 5min.</li> <li>r 5 min. Off Bottom in 15min.</li> <li>ng Blow Off Bottom in 5min.</li> </ul>	2012.08.19 14:50:00	Capacity: Last Calit Time On I Time Off	o.: Btm: 2	8000.00 1899.12.30 2012.08.19 @ 11:05:30 2012.08.19 @ 13:16:30	psig
é		or 5min. Came back 2" in Bkt.					
	Pressure vs. 7 8321 Pressure	िime छा 8321 Temperature		PF	RESSUR	RE SUMMARY	
1000 1250 1000 760 200 0 100M Sun Aug 2012	222 Pressue 1164 122M Time (ficure)	201 lengesture 100 100 100 100 100 100 100 10	(1011n.) 0 2	Pressure (psig) 1632.74 101.24 82.13 115.10 99.54 101.15 130.22 1516.30	Temp (deg F) 105.59 105.23 107.15 108.60 108.64 109.38 109.10 109.90	Open To Flow (1) Shut-ln(1) End Shut-ln(1) Open To Flow (2) Shut-ln(2) End Shut-ln(2)	
	Recovery				Gas	s Rates	
Length (ft)	Description	Volume (bbl)			Choke (ir	nches) Pressure (psig) Ga	s Rate (Mcf/d)
220.00	Gas in Pipe	19.99					
30.00	Slightly Mud Cut Oil 40%g Gassy Oil 40%g 60%o	0.42					
			1				

11.11	RILOBITE		STEM TE				
が	ESTING, INC	Quest Energ	У		31	195 100	Rice Ks.
	ESTING, INC	2732 N. Ree Brookville			#31	-2 Sieke	
		brookville, K	s. 67425+9812			Ticket: 49	
all		ATTN: Ken	Wallace		Test	Start: 20	012.08.19 @ 19:10:00
GENERAL	INFORMATION:						
Formation: Deviated: Time Tool Ope Time Test End		ft	(КВ)		Test Test Unit	er: 1	Conventional Bottom Hole (Reset) Troy Leiker #44
Interval: Total Depth: Hole Diameter:	3265.00 ft (KB) To 32 3285.00 ft (KB) (Th 7.88 inchesHole	/ D)			Refe	erence Ele KB te	vations: 1792.00 ft (KB) 1785.00 ft (CF) o GR/CF: 7.00 ft
Serial #: 8	321						an an an the second
Press@RunDe		-	ft (KB)	00/0 00 00	Capacity		8000.00 psig
Start Date: Start Time:	2012.08.19 19:10:00	End Da End Tir		2012.08.20 00:25:00	Last Calil Time On Time Off	Btm: 2	1899.12.30 2012.08.19 @ 20:25:00 2012.08.19 @ 22:55:30
TEST COM	MENT: IF 30 very Strong IS 45 Weak Stea FF 30 Very Stron FS 45 Weak Blov	dy Blow 1/2" in ng Blow , Off B	n Bkt. ottom in 5min.				
	Pressure vs. 7	1100.0 8321 Temper					RESUMMARY
1760	a fair reaction	cost i remon	-	(Min.)	Pressure (psig) 1639.25	Temp (deg F) 102.28	Annotation Initial Hydro-static
			100	1	79.57	102.35	Open To Flow (1)
	1 mark			35		105.86	Shut-In(1)
1250			-		96.29	400 40	End Ohid In(A)
			- 05	75	154.36		End Shut-In(1) Open To Flow (2)
			- 00			106.40	and a construction of the second
1000 1000				Temperature (Ideg F	154.36 95.06 103.47 148.84	106.40 107.09 107.41	Open To Flow (2) Shut-In(2) End Shut-In(2)
1000 1000 1			- 20	75 76 107	154.36 95.06 103.47	106.40 107.09	Open To Flow (2) Shut-In(2)
06 9000	BPM OPM OPT	BITCH Q	0	Temperature (Ideg F	154.36 95.06 103.47 148.84	106.40 107.09 107.41	Open To Flow (2) Shut-In(2) End Shut-In(2)
	SPM OPM 10PM Tima (Hours)	BITCH Q		Temperature (Ideg F	154.36 95.06 103.47 148.84	106.40 107.09 107.41 108.04	Open To Flow (2) Shut-ln(2) End Shut-ln(2) Final Hydro-static
5000 5000 5000 7750 5000 7750 7750 7750	BPM SPM 19PM	BITCH Q		Temperature (Ideg F	154.36 95.06 103.47 148.84	106.40 107.09 107.41 108.04	Open To Flow (2) Shut-ln(2) End Shut-ln(2) Final Hydro-static
700 700 600 700 700 700 700 700 700 700	орм орм орм Tima(Hours) Recovery	BITCH Q	20 Men	Temperature (Ideg F	154.36 95.06 103.47 148.84	106.40 107.09 107.41 108.04 Ga	Open To Flow (2) Shut-ln(2) End Shut-ln(2) Final Hydro-static
10 Sun Aug 2012	арм орм орм Time(foun) Recovery Description	11PM	20 Men Volume (bbl)	Temperature (Ideg F	154.36 95.06 103.47 148.84	106.40 107.09 107.41 108.04 Ga	Open To Flow (2) Shut-ln(2) End Shut-ln(2) Final Hydro-static
700 700 700 700 700 700 700 700 700 700	арм арм тте (form) Recovery Description Gas in Pipe	11PM	20 Men (bbl) 14.03	Temperature (Ideg F	154.36 95.06 103.47 148.84	106.40 107.09 107.41 108.04 Ga	Open To Flow (2) Shut-ln(2) End Shut-ln(2) Final Hydro-static
1000 100 1000 1	арм арм арм арм Recovery Description Gas in Pipe Mud Cut Gassy Oil 30% g	11PM	Volume (bbl) 14.03 2.52	Temperature (Ideg F	154.36 95.06 103.47 148.84	106.40 107.09 107.41 108.04 Ga	Open To Flow (2) Shut-ln(2) End Shut-ln(2) Final Hydro-static
Length (ft) 1000.00 180.00	арм арм арм арм Recovery Description Gas in Pipe Mud Cut Gassy Oil 30% g	11PM	Volume (bbl) 14.03 2.52	Temperature (Ideg F	154.36 95.06 103.47 148.84	106.40 107.09 107.41 108.04 Ga	Open To Flow (2) Shut-ln(2) End Shut-ln(2) Final Hydro-static

AT IN	RILOBITE	DRILL S		COI						
UED)		Quest Energy				31 1	19S 10W	Rice Ks.		
	ESTING , INC	2732 N. Reese Brookville, Ks.		2			-2 Sieke Ticket: 49		DST#:3	3
		ATTN: Ken W	Vallace			Test	t Start: 20	12.08.20 @	04:40:00	
GENERAL	INFORMATION:									
	Arbuckle No Whipstock: ened: 06:07:25 led: 11:21:17	ft (K	<b>(</b> B)			Test Test Unit	ter: 7	Conventional Froy Leiker #44	Bottom Ho	le (Reset)
<b>Interval:</b> Total Depth: Hole Diameter	<b>3266.00 ft (KB) To 3</b> : 3287.00 ft (KB) (T r: 7.88 inchesHol					Refe	erence Ele KB te	o GR/CF:	1792.00 1785.00 7.00	
Serial #: 8 Press@RunD Start Date: Start Time: TEST COM	Depth: 106.04 psig 2012.08.20 04:40:00	End Date End Time	e: 3min.	2	2012.08.20 11:21:17	Capacity Last Calil Time On Time Off	b.: Btm: 2	2 2012.08.20 ( 2012.08.20 (		5
	FF 30 Strong Bk	ow, Off Bottom in	n 10min.							
	FF 30 Strong Bk FS 45 Bled Off, Pressure vs.	ow , Off Bottom in Weak Steady Blo	n 10min. ow 1/2" in Bk	t.		PI	RESSUF	RE SUMM	ARY	
1400 1200 750 600 200 0 1 200 0 1 200 0 1 200 0 1 2012	FF 30 Strong Bk FS 45 Bled Off,	OW, Off Bottom in Weak Steady Blo	n 10min. ow 1/2" in Bk	t. - 106 - 100 - 60 - 70 - 70 - 70 - 50 - 70 - 50	Time (Min.) 0 1 31 75 75 107 150 150	Pressure (psig) 1635.04 93.43 92.48 139.37 104.08 106.04 160.66 1540.36	Temp (deg F) 99.07 98.68 104.12	Annotatio Initial Hydro Open To Fi Shut-In(1) End Shut-Ir Open To Fi Shut-In(2)	n o-static ow (1) n(1) ow (2) n(2)	
1200 700 000 000 000 000 000 000 000 000	Better Preserver view of the preserver view	OW, Off Bottom in Weak Steady Blo	n 10min. pw 1/2" in Bk	- 106 - 60 Temperature (deg F) - 60 - 75 F) - 70 - 70	(Min.) 0 1 31 75 75 107 150	Pressure (psig) 1635.04 93.43 92.48 139.37 104.08 106.04 160.66	Temp (deg F) 99.07 98.68 104.12 104.59 104.55 105.60 105.61 105.91	Annotatio Initial Hydro Open To Fi Shut-In(1) End Shut-Ir Open To Fi Shut-In(2) End Shut-Ir Final Hydro		
1200 100 1000 1	EAM FF 30 Strong Bk Pressure vs. Pressure vs. Set Set Tres (rear) Description	OW, Off Bottom in Weak Steady Blo	volume (bbl)	- 106 - 60 Temperature (deg F) - 60 - 75 F) - 70 - 70	(Min.) 0 1 31 75 75 107 150	Pressure (psig) 1635.04 93.43 92.48 139.37 104.08 106.04 160.66	Temp (deg F) 99.07 98.68 104.12 104.59 104.55 105.60 105.61 105.91	Annotatio Initial Hydro Open To Fi Shut-In(1) End Shut-Ir Open To Fi Shut-In(2) End Shut-Ir Final Hydro		Sas Rate (Mcf/d)
1200 100 1000 1	EAM FF 30 Strong Bk FS 45 Bled Off, Pressure vs. Pressure vs. Press	OW, Off Bottom in Weak Steady Blo	h 10min. bw 1/2" in Bk	- 106 - 60 Temperature (deg F) - 60 - 75 F) - 70 - 70	(Min.) 0 1 31 75 75 107 150	Pressure (psig) 1635.04 93.43 92.48 139.37 104.08 106.04 160.66	Temp (deg F) 99.07 98.68 104.12 104.59 104.55 105.60 105.61 105.91	Annotatio Initial Hydro Open To Fi Shut-In(1) End Shut-Ir Open To Fi Shut-In(2) End Shut-Ir Final Hydro		Bas Rate (Mcf/d)
1200 100 1000 1	EAM FF 30 Strong Bk Pressure vs. Pressure vs. Source of Pressure vs. Sour	OW, Off Bottom in Weak Steady Blo	h 10min. bw 1/2" in Bk	- 106 - 60 Temperature (deg F) - 60 - 75 F) - 70 - 70	(Min.) 0 1 31 75 75 107 150	Pressure (psig) 1635.04 93.43 92.48 139.37 104.08 106.04 160.66	Temp (deg F) 99.07 98.68 104.12 104.59 104.55 105.60 105.61 105.91	Annotatio Initial Hydro Open To Fi Shut-In(1) End Shut-Ir Open To Fi Shut-In(2) End Shut-Ir Final Hydro		Bas Rate (Mcf/d)