# Kansas Corporation Commission Oil & Gas Conservation Division

RECEIVED Form ACO-1

September 1999

JUN 2 0 2005 Must Be Typed

#### WELL COMPLETION FORM CONTIDENTIAL WELL HISTORY - DESCRIPTION OF WELL & LEASE

KCC WICHITA

Operator: License #	API No. 15 - 145-21513-00-00 URIGINAL
Name: CLUTE OIL CORPORATION	County: Pawnee
Address: 4300 South Dahlia Street	SW - NE - NE Sec. 7 Twp. 22 S. R. 19 East V West
City/State/Zip: Englewood, CO 80113-6101	990 feet from S N (circle one) Line of Section
Purchaser: N/A	990 feet from E/W (circle one) Line of Section
Operator Contact Person: Peter R. Clute	Footages Calculated from Nearest Outside Section Corner:
Phone: (303) 779-4216 JUN 15 2005	(circle one) NE SE NW SW
Contractor: Name: Petromark Drilling, LLC	Lease Name:Woelk Well #: 1-7
License: 33323 CONFIDENTIAL	Field Name: Wildcat
Wellsite Geologist: Bruce D. Becker	Producing Formation: N/A
Designate Type of Completion:	Elevation: Ground: 2,103' Kelly Bushing: 2,108'
✓ New Well Re-Entry Workover	Total Depth: 4,520' Plug Back Total Depth: 2,486.35'
Oil SWD SIOWTemp. Abd.	Amount of Surface Pipe Set and Cemented at 22 Jts. 8 5/8" @ 885.53 Feet
Gas ENHR SIGW	Multiple Stage Cementing Collar Used?
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth setFeet
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from
Operator:	feet depth tosx cmt.
Well Name:	
Original Comp. Date: Original Total Depth:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)  4270-07  Chlorida content 23,000  Plant Fluid Values 200  hble
Deepening Re-perf Conv. to Enhr./SWD	Chloride content 23,000 ppm Fluid volume 200 bbls
Plug Back Plug Back Total Depth	Dewatering method used Evaporation
Commingled Docket No	Location of fluid disposal if hauled offsite:
Dual Completion Docket No	
Other (SWD or Enhr.?) Docket No	Operator Name: N/A
March 7, 2005 March 17, 2005 Pending	Lease Name: License No.:
Spud Date or Recompletion Date  Date Reached TD  Recompletion Date  Recompletion Date	Quarter Sec Twp S. R East West           County: Docket No.:
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas 67202, within 120 days of the spud date, recompletion, workover information of side two of this form will be held confidential for a period of 12 107 for confidentiality in excess of 12 months). One copy of all wireline logs at TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells.	r or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply.  2 months if requested in writing and submitted with the form (see rule 82-3- and geologist well report shall be attached with this form. ALL CEMENTING
All requirements the titles, rules and regulations promulgated to regulations browning at the regulation of the best of my knowledge.	te the oil and gas industry have been fully complied with and the statements
SIONANITE: STATE PROPERTY OF THE PROPERTY OF T	KCC Office Use ONLY
Tile Peter R. Clute, Prest Date: June 15, 2005	Letter of Confidentiality Received
Subscribed and sworn blooms be this be day of	2005, If Denied, Yes Date:
Sulfactional sworn observe the this le day of June, a 20 20 Color of Color	Wireline Log Received
OF COLORS	Geologist Report Received
My Commission Expires 02/24/2909	UIC Distribution
Date Commission Expires:	

Side Two

ORIGINAL JUN 2 0 2005

>polator (valido,	E OIL CORPO				e Name:_			Well #:	COM/ICHITA	
Sec. 7 Twp. 22	S. R. 19	East	✓ West	Count	ty: Pawn	90	······································			
NSTRUCTIONS: Show ested, time tool open a emperature, fluid recov Electric Wireline Logs s	and closed, flowing very, and flow rate	g and shut-i s if gas to s	n pressures, urface test, a	whether s long with	shut-in pre	ssure reached	static level, hydros	static pressu	res, bottom hole	
Orill Stem Tests Taken (Attach Additional Sh	reets)	✓ Yes	s 🗌 No		<b>✓</b> L	og Formati	on (Top), Depth ar	nd Datum	Sample	
Samples Sent to Geolo	gical Survey	✓ Yes	i ☐ No		Nam Anhy			Top 1,230'	Datum + 878'	
Cores Taken		Yes	√ No		Winf			2,272'	- 164'	
Electric Log Run		✓ Yes	No No		Base	Florence		2,472'	- 364'	
(Submit Copy)					Wau	baunsee		2,986'	- 878'	
list All E. Logs Run:					Tope	eka		3,296'	-1,188'	
Borehole Comp	ensated So	nic Loa:	Dual		Heel			3,664'	-1,556'	
Compensated F		•		₋og;	Lans	sing Kansas	City	3,749'	-1,641'	
Geologist's Log		•		O,	į.	INUED ON ATT	•			
		Donort		RECORD		w Used	tion at			
Purpose of String	Size Hole		Casing	T	sunace, inte  eight	ermediate, produc	Type of	# Sacks	Type and Percent	
	Drilled	Set (	In O.D.)	Lbs	s. / Ft.	Depth	Cement	Used	Additives	
Surface Casing	121/4"	8 5/8"		23#		885.53'	"A" Common & 60/40 Poz	360	3% CaCl	
Production Casing	7 7/8"	4½"		10.5#		2,486.35'	50/50 Poz	350	4% Gel; 2% CaCl	
			ADDITIONAL	. CEMENT	ING / SQL	JEEZE RECORE	)	<u> </u>		
Purpose:	Depth Top Bottom	Туре о	f Cement	#Sack	s Used		Type and Pe	Type and Percent Additives		
Perforate Protect Casing			***					JU	N 16 2005	
Plug Back TD Plug Off Zone								CON	-IDENTIAL	
						1				
Shots Per Foot			- Bridge Plug sch Interval Pe		е		cture, Shot, Cement mount and Kind of Ma		ord Depth	
s	hut In - Waiting	on comple	etion tools				Manufacture of the second seco			
			\				- Andrews of the second			
					***************************************					
TUBING RECORD N/A	Size	Set At		Packer	At	Liner Run	Yes ✓ No	TOTAL STREET,		
Date of First, Resumerd F	Production, SWD or I	Enhr.	Producing Met	hod	Flowing	g Pumpi	ng 🔲 Gas Lift	Otl	ner <i>(Explain)</i>	
Estimated Production	Oil	Bbls.	Gas	Mcf	Wate	er B	bls. G	as-Oil Ratio	Gravity	
	1		OL		CHIL	T IN - WOCT	•			
Per 24 Hours  Disposition of Gas	N/A METHOD OF 0		SHUT IN		3110	1 114 - 44001	**************************************		TARREST CONTRACTOR OF THE PARTY	

Woelk #1-7, SWNENE-7-22S-19W, Pawnee County, Kansas

RECEIVED
JUN 2 0 2005
KCC WICHITA

#### FORMATION TOPS, CONTINUED:

NAME NAME	<u>TOP</u>	<u>DATUM</u>	KOO
Base Kansas City	4,057'	(-1,949')	
Ft. Scott	4,204'	(-2,096')	JUN 16 2005
Cherokee Shale	4,216'	(-2,108')	
Cherokee Sand		ABSENT	CONFIDENTIAL
Mississippian Chert	4,306'	(-2,198')	The state of the s
Kinderhook	4,356'	(-2,248')	
Viola	4,378'	(-2,270')	
LOGGER'S T.D.	4,522'	(-2,414')	

			AIKC					TRE	ATMENT	REPOR	CEIVE	
	AGIN		JUN 1	6 2hi					Date		JN 2 0 20	
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	V I C E S			Level VI Le	HARA I	WOEL	<u> </u>		Lease No.		Well# /-	- 7
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2481	3> Depth	From	2.4 <b>8</b> 6 B	To		4% 6	L 20/-	C.C.	SH COLSO	T SH	-5 Mip.	- h
alume 35,07	Volume	From		То		Pad & %	PLA-3	S. 25	Min DEfoor	75%	2 519 Min. C/	PR3
2000	Miliax Pres	From		То		Frac/3.7	1/60L		Avg		15 Min.	
/ell Connecti		From		То		1.54	1.f13		HHP Used		Annulus Pre	essure
2452	70 Packer D	Depth From		То			Bbls M	UD P	Gas Volume		Total Load	
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1024	4 NE Hiw	ay 61 • P.	O. Box 8	3613 •	Pratt.	KS 6712	4-8613 • F	Phone /	620) 672-120	1 . Fay /6	20) 672 6	202

P.O. Box 8613 • Pratt, KS 67124-8613 • Phone (620) 672-1201 • Fax (620) 672-5383

:00

#### TREATMENT REPORT Date IIIN 20 2005 82 ASWICHITA Woelk ICES State / Field Order # Depth 85 County 10008 PIPE DATA PERFORATING DATA **FLUID USED** TREATMENT RESUME Casing Size **Tubing Size** RATE PRESS ISIP 12.0 500 Depth 876 Depth PB70 5 Min. From 1,25 то 145 10 Min. From To Max Press Frac Avg 15 Min. 500 To From Well Connection Annulus Vol. HHP Used Annulus Pressure From То Plug Depth Packer Depth Flush Gas Volume Total Load HZO Customer Representative Station Manager Treater Clute D. Scott 380 76 24 457 346 Service Units Casing Tubing Time **Bbls. Pumped** Service Log Pressure Pressure 1100 1448 4.5 150 1304 100 ose Ino Release 1518 0 55,6 400 1330 5/61 Cel 30 miu hank you Sco HY 10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • Phone (620) 672-1201 • Fax (620) 672-5383

# BRUCE D BECKER CONSULTING GEOLOGIST

Pawnee County, KS

ORIGINAL

212 N MARKET #402 WICHITA KS 67202 316 262 0902

P O Box 483 MORRISON CO 80465-0483 303 756 6070

KCC JUN 1 6 2005

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March 24, 2005

CONFIDENTIAL
WELL REPORT
Clute Oil Woelk #1-7
Sec. 7-T22S-R19W

JUN 2 0 2010 KCC WICHITA

Well Location:

SWNENE (990' fnl & 990' fel)

Total Depth:

4520' RTD & 4522' LTD Simpson Fm.

Drillstem Test:

DST #1 4304'-4320' Mississippian Chert

Rec: 10' O&WCM (2% Oil, 12% Water & 86% Mud)+ 110' WCM

Sample Chamber: 4000ml Water w/scum oil Chlorides: approx. 30,000ppm (filtrate?)
IF 30" Weak Blow - 3" IFP 29-59#
ISI 60" Dead ISIP 1326#
FF 30" Weak Blow - 1" FFP 67-81#
FSI 30" Dead in 3 min. FSIP 1282#
(See attached Drillstem Test Report)

Geological Services:

Supervision and Sample Examination 2100'-TD

Surface Casing: 885' - 8-5/8" Production Casing: 2486' - 4-1/2"

Log Tops:	NESWNW	NENENE	<b>SWNENE</b>
	Sec. 36	Sec. 7	Sec. 7
	Klepper-Musenberg	Harnish #1	Woelk #1-7
KB	2109	2113	2108
Anhydrite	1215 +894	1220 +893	1230 +878
Winfield (Chase)	2231 -122	2264 -151	2272 -164
Base Florence	2437 -328	2462 -349	2472 -364
Wabaunsee	2936 -827	2976 -863	2986 -878
Topeka	3226 -1117	3288 -1175	3296 -1188
Heebner	3606 -1497	3661 -1548	3664 -1556
Lansing/Kansas City	3686 -1577	3747 -1634	3749 -1641
Base Kansas City	3981 -1872	4056 -1943	4057 -1949
Fort Scott	4126 -2017	4204 -2091	4204 -2096
Cherokee Shale	4142 -2033	4220 -2107	4216 -2108
Cherokee Sand	Absent	4276 -2163	Absent
Mississippian Chert	4222 -2113	4323 -2210	4306 -2198
Kinderhook	4272 -2163	4376 -2263	4356 -2248
Viola	4381 -2272	4495 -2382	4378 -2270
TD	4800	4670	4522

Discussion:

The Woelk #1-7 encountered no commercial pay zones below the Heebner Shale (3664'). The Woelk #1-7 did confirm the structural interpretation within the Lower Pennsylvanian to Ordovician interval and this interval did thin by 120' to that present in the Harnish #1. The resulting formations tops, comparing the Woelk #1-7 to the Harnish #1, began as being 8 feet low at the Heebner Shale and ended by being 112 feet high at the Viola horizon. Although there were sample shows in the: Lansing/Kansas City (3), Mississippian Chert and Viola Formations. For the most part potential reservoirs below the Heebner Shale were characterized by highly porous

RECEIVED JUN 20 2005

rock with little permeability. In many cases the original rock fabric has been ICHITA completely altered and now is comprised of chalk. This high alteration of the original ICHITA rock fabric and resultant tight nature of the reservoir rock may be a result of being too high in terms of paleo-structure. Based on promising log calculations the decision was made to run production casing to 2486' in order to evaluate the gas potential of the Herington, Krider, Winfield and Towarda Members of the Chase Group. STRUCTURE

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The Woelk #1-7 was drilled to evaluate a structural feature suggested by well data and single point seismic data. Mapping of this data indicated that a well positioned in SWNENE Section 7-T22S-R19W would encounter prospective pay zones in the Chase, Lansing/Kansas City, Cherokee, Mississippian, Kinderhook and Viola in a structural position higher than those in the Harnish #1, an offset well in the NENENE Section 7-T22S-R19W. Interpretation of the structural position of the prospective pay zones above the Mississippian proved to be inaccurate and the Woelk #1-7 was lower than the Harnish #1 on these zones. However, the structural interpretation on the Mississippian Chert and Kinderhook was "right on", while the structural top of the Viola proved to be 100' higher than expected. The structural top of the Viola Formation even proved to be higher than that of the highest well in Merritt Field (approximately 2 miles to the northwest). The Woelk #1-7 proved the existence of a deep positive structure in the northeast quarter of Section 7-T22S-R19W. This structure is offset at shallower horizons (Chase) in a northeasterly direction and may be centered in the southwest quarter of Section 5-T22s-R19W.

*CHASE* The Chase zones were not Drillstem tested due to a miscalculation of the drill pipe tally by the drilling contractor. The tally indicated that when we had reached our test point, at 2280', we were 30 feet deeper (2310') than thought. This later proved not to be the case when we were able to conduct a pipe strap. The decision was made to

drill on without testing and to evaluate the Chase interval based upon logs. The log suite (Dual Induction and Dual Compensated Porosity logs) of the Chase zones in the Woelk #1-7 indicate these zones to be have an excellent potential for significant gas reserves. The Chase zones, in the Woelk #1-7, have a structural position approximately flat to that in the Becker Oil Price #2 (W/2SENWSE Section 19-T22S-R19W). The Price #2 was completed in January 2002 at a rate of 130 MCFGPD from the Towarda and Herington Members of the Chase Group. The Dual Compensated Porosity Log indicates the Chase zones to have equivalent porosity and exhibit Neutron/Density crossover (gas indicator) similar to that in the Price #2. Based upon the above stated log character, log calculations and the abundance of shallow gas wells in the surrounding area the decision was made to run 4-1/2" production casing to a depth of 2486 feet and to evaluate the Towarda, Winfield, Krider and Herington Members of the Chase Group through pipe.

*LANSING/KANSAS CITY* Three zones in the Lansing/Kansas City (G, I and J) had fair to good samples shows. It was, also, at this point that the gas detector was determined to be not functioning properly. Upon testing the gas detector system was found to have a feedline leak which resulted in inadequate flow from the mud trap to the detection unit. All readings above 4200' are suspect, to the low side, and some shows may have been missed. The Lansing/Kansas City "G" zone (3900'-3907') had a excellent drilling break. Samples had good porosity but were chalky. Dry samples showed faint fluorescence on less than 5% of the samples. The "G" zone produces oil at Rozel Field, two miles to the northeast. The Lansing/Kansas City "I" zone (3953'-3964') had a good to excellent drilling break. Samples had fair intergranular to good comoldic porosity but were chalky in part. Approximately 5% of samples had fair to good fluorescence and a weak cut. The Lansing/Kansas City "J" zone (3990'-4000') had a poor drilling break but good sample shows. Samples have fair intergranular porosity, some vuggy porosity, faint odor, fair to good stain and instant cut and fluorescence on approximately 5% of the pieces. This zones tested a small amount of oil and may have produced in a well at Merritt Field.

ORIGINAL KCCWICHITA

JUN 2 0 2005

CHEROKEE

CONFIDENTIAL

The Cherokee Interval (4216'-4270') is much thinner, in the Woelk #1-7, than that of the Harnish#1 and no significant amount of sand was encountered. The Woelk #1-7 drilled into a Pennsylvanian Conglomerate "rubble" from 4270' to the top of the Mississippian Chert at 4306'. The Lower Cherokee Limestone (4252'-4266') had a poor drilling break but did have a slight sample and gas detector show. Samples are described as having fair intergranular porosity, some bright yellow fluorescence and slow cut on less than 5% of the pieces.

*MISSISSIPPIAN* 

The Mississippian Chert (4306' - 4356') had good sample and gas detector shows. The poor fluid recovery in DST #1 and decreasing shut-in pressure indicate the Chert to be tight. The Mississippian Chert zone was produced in several wells at neighboring Merritt Field, Burdett Field and Givens Field. I believe that this interval could be productive if encountered in an area that has abundant natural fracturing of the chert.

KINDERHOOK
The Kinderhook section (4356'-4378') thins dramatically from 119 feet in the Harnish #1 to 22 feet in the Woelk #1-7. Unfortunately, during drilling of this unit the drill bit gave out. This resulted in unreliable drilling times and very poor samples. The samples are described as: Sandstone, white to green, poor to good porosity and no show. The pinch out of such a large amount of the Kinderhook section suggests the potential for stratigraphic entrapment of hydrocarbons in this area. VIOLA

The Viola Formation (4378'-4488') is structurally 112 feet high to that in the Harnish #1. Unfortunately, the drilling of the top of the Viola interval was also effected when the drill bit "cratered". The remainder of the Viola interval drilled slowly. Samples are described as: Chert, white to light grey to brown, highly weathered, trace dead oil stain to Limestone, white, chalky, cherty, with some gas bubbles. The presence of gas bubbles and little to no gas kick on the gas detector suggest low BTU gas or another leak in the gas detector feedline. Should the Viola develop greater porosity in this area in a favorable structural position commercial hydrocarbon production might be achieved.

WHAT NEXT?

Should production testing of the Chase Group, in the Woelk #1-7, yield significant gas reserves, a gas market must be established. It is believed that Becker Oil has plans to hook the Price #2 up to its gathering system which is presently located a few miles south in Township 23 South and Range 19 West. Should the gathering system be extended to the Price #2 we would only need to lay two to three miles of pipeline to connect the Woelk #1-7.

Expiration of the Price and Ellis leases (SE Section 6-T22S-R19W and SW Section 5-T22S-R19W) require that a well be drilled on one of these parcels before year's end. If significant gas production is established in the Chase at the Woelk #1-7, a case can be made for drilling a Chase well in the SWSWSW Section 5-T22S-R19W. The Woelk #1-7 leaves several geological questions unanswered about the Woelk Prospect. If the Cherokee interval, in the Harnish #1, is indicative of a channel deposit, where is the axis of this channel and does it contain significant sand? Can porous and permeable reservoirs within the Lansing/Kansas City G, I and J zones be located? Can areas of fractured Mississippian Chert be located? Additional seismic data in the form of a 3-D seismic survey may go a long way in determining the

answers to the above questions.

ORIGINAL



#### **DRILL STEM TEST REPORT**

RECEIVED

Clute Oil Corp.

Woelk # 1-17

JUN 2 0 2005

4300 South Dahlia St. Englewood, Co. 80113 7-22s-19w Job Ticket: 21841 KCC WICHITA

ATTN: Peter Clute

Test Start: 2005.03.15 @ 11:27:11

**GENERAL INFORMATION:** 

Formation:

1 1 1 x

Miss.

Deviated:

No Whipstock Time Tool Opened: 13:30:41

ft (KB)

Test Type:

Conventional Bottom Hole

CONFIDENTIAL Tester:

John Schmidt

Unit No:

Reference Elevations:

2108.00 ft (KB)

2103.00 ft (CF)

KB to GR/CF:

5.00 ft

Interval: Total Depth: 4304.00 ft (KB) To 4320.00 ft (KB) (TVD)

Hole Diameter:

Serial #: 8018

Press@RunDepth:

Time Test Ended: 19:35:41

4320.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair

Capacity:

7000.00 psig

Start Date: Start Time:

Inside

81.62 psig @ 2005.03.15 11:27:11

4305.00 ft (KB) End Date: End Time:

2005.03.15 19:35:41

Last Calib.:

2005.03.15

Time On Btm:

2005.03.15 @ 13:30:11

Time Off Btm:

2005.03.15 @ 16:31:41

TEST COMMENT: IF-Weak built to 3"in.

FF-Weak built to 1"in.

ISI-Dead FSI-Dead

Pressure vs. Time

		PI	RESSUR	RE SUMMARY
1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2356.17	107.61	Initial Hydro-static
	1	29.44	106.92	Open To Flow(1)
i	30	59.32	110.80	Shut-In(1)
4	88	1326.96	111.64	End Shut-In(1)
empe	88	67.46	111.28	Open To Flow(2)
rature	118	81.62	113.58	Shut-ln(2)
Temperature (deg F)	180	1282.46	114.74	End Shut-In(2)
J	182	2232.22	115.16	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
110.00	WCM-15%W-85%M	0.54
10.00	OWCM-2%O-12%W-86%M	0.07

Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 21841

Printed: 2005.03.15 @ 19:30:18 Page 1