

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

Operator: License # 30220

Name: LRC DEVELOPMENT CORP.

Address P.O. BOX 279

City/State/Zip HAYS, KS 67601

Purchaser: \_\_\_\_\_

Operator Contact Person: BRIAN KARLIN

Phone (913) 268-3324

Contractor: Name: EMPHASIS OIL OPERATIONS

License: 8241

Wellsite Geologist: NONE

Designate Type of Completion

\_\_\_\_ New Well  Re-Entry \_\_\_\_ Workover

\_\_\_\_ Oil  SWD \_\_\_\_ S10W \_\_\_\_ Temp. Abd.  
\_\_\_\_ Gas \_\_\_\_ ENHR \_\_\_\_ SIGW  
\_\_\_\_ Dry \_\_\_\_ Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: CRUDE RECOVERY CORPORATION

Well Name: SUTOR #12

Comp. Date 4/4/86 Old Total Depth 4233

Deepening \_\_\_\_ Re-perf. \_\_\_\_ Conv. to Inj/SWD  
\_\_\_\_ Plug Back \_\_\_\_ PSTD  
\_\_\_\_ Commingled \_\_\_\_ Docket No. \_\_\_\_  
\_\_\_\_ Dual Completion \_\_\_\_ Docket No. \_\_\_\_  
 SWD Other (SWD or Inj?) Docket No. \_\_\_\_

2 3/29/92 3/2/92 4/1/92  
Spud Date Date Reached TD Completion Date

API NO. 15- 163-22,877-00-01

County ROOKS

NE - SW - NE - Sec. 13 Twp. 10S Rge. 20  E  
 W

1650 Feet from  (circle one) Line of Section

1650 Feet from  (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)

Lease Name SUTOR RANCH Well # 12

Field Name MARCOTTE

Producing Formation GRANITE WASH

Elevation: Ground 2195 KB 2200

Total Depth 4245 PSTD 4236

Amount of Surface Pipe Set and Cemented at 214 Feet

Multiple Stage Cementing Collar Used?  Yes \_\_\_\_ No

If yes, show depth set 1607 Feet

If Alternate II completion, cement circulated from 1607

feet depth to SURFACE w/ 625 ex cmt.

Drilling Fluid Management Plan 4-14-92  
(Data must be collected from the Reserve Pit)

Chloride content \_\_\_\_\_ ppm Fluid Volume \_\_\_\_\_ bbls

Dewatering method used \_\_\_\_\_

Location of fluid disposal if hauled offsite \_\_\_\_\_

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

\_\_\_\_ Quarter Sec. \_\_\_\_ Twp. \_\_\_\_ S Rng. \_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

RECEIVED  
STATE CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
Wichita, Kansas  
4-14-92

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature Brian Karlin

Title Completion Engineer Date 4/9/92

Subscribed and sworn to before me this 9th day of April, 1992.

Notary Public Betty Wilder

Date Commission Expires April 19, 1994

K.C.C. OFFICE USE ONLY  
F \_\_\_\_ Letter of Confidentiality Attached  
C  Wireline Log Received  
C \_\_\_\_ Geologist Report Received  
  
\_\_\_\_ KCC Distribution  
\_\_\_\_ KGS \_\_\_\_ SWD/Rep \_\_\_\_ NGPA  
\_\_\_\_ Plug \_\_\_\_ Other  
(Specify)

NOTARY PUBLIC - State of Kansas  
BETTY WILDER  
My Appt. Exp. 4-19-94

Operator Name LRC DEVELOPMENT CORP. Lease Name SUTOR RANCH Well # 12  
 Sec. 13 Twp. 10S Rge. 20  East County ROOKS  
 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Datum</th> </tr> </thead> <tbody> <tr> <td>TOPEKA LM</td> <td>3194</td> <td>933</td> </tr> <tr> <td>HEEBNER SN</td> <td>3402</td> <td>1201</td> </tr> <tr> <td>TORONTO LM</td> <td>3418</td> <td>1217</td> </tr> <tr> <td>LANS. / KC</td> <td>3440</td> <td>1239</td> </tr> <tr> <td>BASE KC</td> <td>3652</td> <td>1451</td> </tr> <tr> <td>ARBUCKLE</td> <td>3738</td> <td>1537</td> </tr> <tr> <td>GRANITE WASH</td> <td>4186</td> <td>1985</td> </tr> <tr> <td>R.T.O.</td> <td>4245</td> <td>2044</td> </tr> <tr> <td>L.T.D.</td> <td>4236</td> <td>2035</td> </tr> </tbody> </table>	Name	Top	Datum	TOPEKA LM	3194	933	HEEBNER SN	3402	1201	TORONTO LM	3418	1217	LANS. / KC	3440	1239	BASE KC	3652	1451	ARBUCKLE	3738	1537	GRANITE WASH	4186	1985	R.T.O.	4245	2044	L.T.D.	4236	2035
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R.T.O.	4245	2044																														
L.T.D.	4236	2035																														
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																															
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																															
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																															
List All E.Logs Run:																																

RA GUARD LOG - LOG TECH  
 NEUTRON DENSITY POROSITY LOG - LOG TECH  
 DUAL INDUCTION LOG - LOG TECH

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, 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
SURFACE	N/A	10 3/4"		214	N/A	N/A	N/A
PRODUCTION	7 7/8"	5 1/2"	14#	3865	Common	200	10% Salt 5% GILSONITE

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate				
<input checked="" type="checkbox"/> Protect Casing	315-1607	60/40 POZ	500	8% GEL
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone	000-315	60/40 POZ	125	6% GEL

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth		
	N/A	OPEN HOLE		1500 GAL	28% NE

<b>TUBING RECORD</b>	Size 3"	Set At 3804	Packer At 3808	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SMD or Inj.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval 3865-4236

Phone 913-483-2627, Russell, Kansas  
 Phone 316-793-5861, Great Bend, Kansas

ORIGINAL

owwo

15-163-22877-0001

Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843

**ALLIED CEMENTING CO., INC.**

2488

Home Office P. O. Box 31

Russell, Kansas 67665

Date	3-2-92	Sec.	13	Twp.	10 <sup>0</sup>	Range	20 <sup>W</sup>	Called Out	10:00 A.M.	On Location	Noon	Job Start	4:00 P.M.	Finish	4:45 P.M.	
Lease	Sutor Ranch	Well No.	12	Location				Zurich 3W35 1/4 W 1/4 SW	County	Rooks	State	Ks.				

Contractor	Emphasis Oil Operations Rig #6		
Type Job	Two-Stage Production String		
Hole Size	7 1/2"	T.D.	4236'
Csg.	5 1/2"	Depth	3857'
Csg. Size	8 3/4"	Depth	275' 214'
Drill Pipe		Depth	
Tool		Depth	
Cement Left in Csg.	10'	Shoe Joint	9.75'
Press Max.	1000#	Minimum	
Meas Line	X	Displace	

Owner	Same
To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Charge To	LRC Development Corporation
Street	P.O. Box 279
City	Hays
State	Ks.
	67601
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	5099-5
X	<i>[Signature]</i>

**EQUIPMENT**

No.	Cementer	
Pumptrk 191	Helper	Gary H. Wayne Mr.
No.	Cementer	
Pumptrk	Helper	
	Driver	Paul D.
Bulktrk #213	Driver	

**CEMENT**

Amount Ordered	200 sks com 10% salt 52 gilsonite
Consisting of	
Common	200 sks @ \$5.25/sk = 1050.00
Poz. Mix	
Gel.	
Chloride	Salt - 20 sks @ 4.72/sk = 94.40
Quickset	
Gilsonite	- 940# @ 33¢/lb. = 310.20
Sales Tax	
Handling	@ 1.00/sk (200 sks) = 200.00
Mileage	@ 0.44/sk/mi (14 mi) = 112.00
Sub Total	\$ 1967.20
Total	

**DEPTH of Job**

Reference #	Description	Cost
#3	Pumptruck bottom stage	880.00
#13	mileage @ 2.00/mi	28.00
	Sub Total	\$ 908.00
	Tax	
	Total	

Remarks: Float Held

Floating Equipment	5 1/2"
1- Basket skoe	- 1445.00
1- AFU insert (Model "C")	- 189.00
1- cementing basket	- 127.00

RECEIVED  
 STATE CORPORATION COMMISSION

Thanks

APR 9 1992

CONSERVATION DIVISION  
 Wichita, Kansas

Phone 913-483-2627, Russell, Kansas  
 Phone 316-793-5861, Great Bend, Kansas

**ORIGINAL**

Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843

**ALLIED CEMENTING CO., INC.**

2489

Home Office P. O. Box 31

Russell, Kansas 67665

Date	3-2-92	Sec.	13	Twp.	10 <sup>s</sup>	Range	20 <sup>w</sup>	Called Out	10:00 A.M.	On Location	Noon	Job Start	5:00 P.M.	Finish	6:00 P.M.	
Lease	Sutor Ranch	Well No.	12	Location				Zurich 3W 35 1/4 W 1/2 SW	County	Rooks	State	Ks				

Contractor	Emphasis Oil Operations		Rig #	6
Type Job	Two-Stage Production String			
Hole Size	7 7/8"	T.D.	4236'	
Csg.	5 1/2"	Depth	3857'	
Csg. Size	8 3/8"	Depth	275' 214'	
Drill Pipe		Depth		
Tool	D.V.	Depth	1612'	
Cement Left in Csg.	10'	Shoe Joint	9.52 9.75'	
Press Max.	1300 #	Minimum		
Meas Line	X	Displace		
Perf.				

Owner	Sams
To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Charge To	LRC Development Corporation
Street	P.O. Box 279
City	Hays, State Ks. 67601
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	
X	<i>(Signature)</i>

**EQUIPMENT**

No.	Cementer	Garry H. Wayne Mc.
Pumptrk 191	Helper	
No.	Cementer	Bill Mc.
Pumptrk	Helper	
	Driver	Mark D.
Bulktrk # 212	Driver	
Bulktrk # 146	Driver	

**CEMENT**

Amount Ordered	500 sks @ 40.00 82 gal
Consisting of	
Common	300 sks @ 5.25/sk. \$1575.00
Poz. Mix	200 sks @ 2.25/sk. 450.00
Gel.	26 sks @ 6.75/sk. (Used 35 sks) 175.50
Chloride	
Quickset	
Sales Tax	
Handling	01.00/sk. (500 sks) 500.00
Mileage	0.44/sk./mi. (14 mi.) 280.00
Sub Total	\$2980.50
Total	

**DEPTH of Job**

Reference #	Description	Amount
# 3	Pumptruck - top stage	475.00
# 13	mileage	n/c.
	Sub Total	475.00
	Tax	
	Total	

Remarks: D.V. tool opened & closed  
 Okay and held.  
 Cement did not circulate.  
 Plugged rat hole w/15 sks

Floating Equipment

Thanks

*(Signature)*

Phone 913-483-2627, Russell, Kansas

Phone 316-793-5861, Great Bend, Kansas

ORIGINAL

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC.

2495

Home Office P. O. Box 31

Russell, Kansas 67665

*QWV*

Date	3-13-92	Sec.	13	Twp.	10 <sup>3</sup>	Range	20 <sup>W</sup>	Called Out	7:00 A.M.	On Location	9:00 A.M.	Job Start	9:30 A.M.	Finish	10:00 A.M.	
Lease	Zutor Ranch		Well No.	12		Location			Zurich 3W 35 1/4 N 1/4 S			County	Rooks		State	Ks

Contractor	
Type Job	Back Side Squeeze
Hole Size	7 7/8" T.D. 4236'
Csg.	5 1/2" Depth 3865'
Thg. Size	10 3/4" Depth 214'
Drill Pipe	Depth
Tool	Depth
Cement Left in Csg.	Shoe Joint
Press Max.	300 # Minimum
Meas Line	Displace
Perf.	

Owner	Sams
To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Charge To	LRC Development Corp
Street	
City	State
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	5099-10
X	<i>[Signature]</i>

### EQUIPMENT

Pumptrk	No.	Cementer	Gary H.
	191	Helper	
Pumptrk	No.	Cementer	
		Helper	
Bulktrk	#212	Driver	Joe S
		Driver	

<b>CEMENT</b>	
Amount Ordered	125 sks 60/40 per 6 bags
Consisting of	
Common	75 sks @ 5.25/sk = 393.75
Poz. Mix	50 sks @ 2.25/sk = 112.50
Gel.	4 sks @ 6.75/sk (Used 7 sks) = 27.00
Chloride	
Quickset	
Sales Tax	
Handling	@ 1.00/sk (125 sks) = 125.00
Mileage	@ 0.44/sk/mi (14 mi.) = 70.00
Sub Total = 728.25	
Total	

<b>DEPTH of Job</b>		
Reference #	Description	Cost
#5	Pumptruck-squeeze	380.00
#13	mileage 2.00/mi	28.00
Sub Total		408.00
Tax		
Total		

Floating Equipment *Thanks*

Remarks: Down annulus (10 3/4" csg) at 300 # max. pressure mixed 125 sks cement and shut in at 200 #