County __

API NO. 15- 163-23,225-000

ROOKS

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

DESCRIPTION OF WELL AND LEASE	<u>C -E/2 - NE - NW</u> Sec. <u>30</u> Twp. <u>10S</u> Rge. <u>19</u> X V
Operator: License #30287	Feet from S/ (circle one) Line of Section
Name: NORWOOD OIL COMPANY	Feet from E/# (circle one) Line of Section
Address 4969 WEST 6TH STREET	Footages Calculated from Nearest Outside Section Corner: , SE, , (circle one)
City/0444/7in CDEFLEY CO 90/7/	Lease Name KELLER Well # 2
City/State/Zip GREELEY, CO 80634	Field NameMARCOTTE
Purchaser:FARMLAND	Producing FormationARBUCKLE
Operator Contact Person: ROB NORWOOD	Elevation: Ground KB KB
Phone (303) 356-1559	Total Depth 3870 PBTD 3818
Contractor: Name: EMPHASIS OIL OPERATIONS	Amount of Surface Pipe Set and Cemented at Feet
License: <u>8241</u>	Multiple State Cementing Collar Used?Yesx No
Wellsite Geologist:	If yes, show depth setFeet
Designate Type of Completion _x New Well Re-Entry Workover	If Alternate II completion, cement circulated from 1616
x Oil SWD SIOW Temp. Abd.	feet depth to SURFACE w/ 325 sx cmt.
Gas ENHR SIGW Dry Other (Core, WSW, Expl., Cathodic, etc.) If Workover/Re-Entry: Oil well info as follows:	Drilling Fluid Management Plan $OLFII$ 9-21-93 (Data must be collected from the Reserve Pit)
Operator:	Chloride content <u>6000</u> ppm Fluid Volume <u>4800</u> bbls
Well Name:	Dewatering method used ALLOW TO DRY
Comp. Date Old Total Depth	Location of fluid disposal if hauled offsite:
Deepening Re-Perf. Conv. to Inj/SWD PBTD Plug Back PBTD Commingled Docket No. Dual Completion Docket No. Other (SWD or Inj?) Docket No. 6/2/93 6/7/93 8/6/93 Spud Date Date Reached TD Completion Date	Operator Name Lease Name Quarter Sec Twp Rng T/W County Docket No.
INSTRUCTIONS: An original and two copies of this form shall be Derby Building, Wichita, Kansas 67202, within 120 days of the Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on simple 12 months if requested in writing and submitted with the months). One copy of all wireline logs and geological well removed by the MUST BE ATTACHED. Submit CP-4 form with all plugged wells	he spud date, recompletion, workover or conversion of a well. de two of this form will be held confidential for a period of form (see rule 82-3-107 for confidentiality in excess of 12 port shall be attached with this form. ALL CEMENTING TICKETS . Submit CP-111 form with all temporarily abandoned wells.
All requirements of the statutes, rules and regulations promulga with and the statements herein are complete and correct to the boundaries.	ted to regulate the oil and gas industry have been fully complie est of my knowledge.
Signature Public Susan Worth Susan Wood Notery-Public Susan Wood Notery-Publi	C . Geologist Papart Pagaiyad
County & Adams, State of Colorado.	Form ACQ-1 (7-91) \$ 5 1993 Wichita, Kansas

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Operator Name <u>NORWO</u>	OD OIL COMPAN	IY		Lease	Name	KELL	ER		Well :	<i></i>	2	
Sec. <u>30</u> Twp. <u>10S</u>	Rge. <u>19</u>	☐ East X West		County		ROOKS	<u>_</u>		-			
Instructions: Show i interval tested, time hydrostatic pressures, if more space is neede	ne tool open bottom hole	and closed, temperature,	flowing	and shut-ir	n pro	essures,	whether shu	ut-in	pressure r	eached st	atic	level
Drill Stem Tests Taker (Attach Additional		X Yes] _{No}	× L	og	Forma	ition (Top),	Depth	and Datum	S		Sample
Samples Sent to Geolog	ical Survey	☐ _{Yes} 🗓	l No	Name				Тор		Datum		
Cores Taken		Yes X	No	TOPEK.	ER			3230 3441		-992 -1203		
Electric Log Run (Submit Copy.) List All E. Logs Run:		X Yes	No	TORON LANSI CONGL SIMPS ARBUC	NG OMERA ON SA			3465 3482 3738 3789 3804		-1227 -1244 -1500 -1551 -1566		
DUAL INDUCTION COMP DENSITY NEUTRON	ı											
	Report a	CASING all strings se	RECORD	X New C	Us	ed termediat	e, producti	on, et	c.			
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D)	Weight Lbs./Ft.		Setting Depth	Type Cemen	of	# Sacks Used	Type an Addi	d Per tives	
SURFACE	12-1/4	8-5/8		20		205	60-40	POZ	140	2% GEL	, 3%	СС
PRODUCTION	7-7/8	5-1/2		14		3865	60-40-	POZ	125	6% SALT,	3/4%	H32
		ADD	ITIONAL C	EMENTING/SQ	UEEZ	E RECORD						
Purpose:	Depth Top Bottom	Type of Cen	nent	# Sacks Use	d		Type and P	ercent	: Additives			
x Protect Casing Plug Back TD	1616-0	HLC		275	6	% GEL, 1/	4# FLOCELE			-1-		
Plug Off Zone	1616-0	COMMON		50	3	% CC						
Shots Per Foot		ON RECORD - Br age of Each Ir	-	• • •		Aci (Amount	id, Fracture t and Kind o	e, Shot	c, Cement S erial Used)	queeze Re	cord Depth	
4	3804-08				N	ONE						
TUBING RECORD	Size 2-7/8	Set At 3801	. 1	Packer At		Liner F	Run 🗌	Yes [K No			
Date of First, Resum 8/6		, SWD or Inj.	Produ	ucing Method	<u> </u>	Flowing	X Pumping	G	as Lift 🗆	Other (E	xplai	n)
Estimated Production Per 24 Hours		Bbls.	Gas	Mcf	Wate	er 173	Bbls.	Gas	-Oil Ratio		Gravi 32	
Disposition of Gas:				OD OF COMPL						Producti	on Ir	terval
Vented Sold (If vented, sub		Lease	Open Ho	ole X Pe	erf.	Dua!	lly Comp.	∟ cor	mmingled	380	4-08	
(11 venteu, sub	107.	L	니 Other ((Specify) _								

15-163-23225-0000

Operator Name NORWOOD OIL COMPANY	<u> </u>	Lease Name	KELLE	R Well #
	☐ East	County	ROOKS	
Sec. 30 Twp. 10s Rge. 19	X West			
DRILL STEM TEST #1		·		ORIGINAL
Interval tested:	3662-3713			CITE OF CONTRACTOR
Times tool opened:	30-30-60-60			
Initial hydrostatic pressure:	1756			
Initial flow pressures:	39-39			
Initial shut-in pressure:	59			
Final flow pressures:	39-39			
Final shut-in pressure:	59			
Final hydrostatic pressure:	1714			
Bottom hole temperature:	108 °F			
Recovery:	10' MUD		•	
DRILL STEM TEST #2				
Interval tested:	3683-3807			
Times tool opened:	30-30-30-60			
Initial hydrostatic pressure:	1948			
Initial flow pressures:	103-177			
Initial shut-in pressure:	1002			
Final flow pressures:	183-233			
Final shut-in pressure:	983			
Final hydrostatic pressure:	1843			
Bottom hole temperature:	110 °F			

340' CGO; 92' HO & GCM

Recovery:

RECEIVED STATE CORPORATION COMMISSION

AUG 2 5 1993

EMPHASIS OIL OPERATIONS

A Division of N-B Company, Inc.

P. O. BOX 506

RUSSELL, KS 67665

DRILLERS LOG

OPERATOR: Norwood Oil Company

4969 W. 6th Street

Greeley, CO 80634

CONTRACTOR:

Emphasis Oil Operations

Box 506

Russell, KS 67665

LEASE: Keller

WELL #2

LOCATION: NW/4

AP1 15-163-23,225-000

Section 30-10S-19W Rooks County, Kansas

LOGGERS TOTAL DEPTH: 3868'

ROTARY TOTAL DEPTH: 3870'

ELEVATION: 2238' K.B.

COMMENCED: 6/2/93

COMPLETED: 6/8/93

CASING: 8-5/8" @ 205' w/140 sks cement

5-1/2" @ 3866' w/125 sks cement

STATUS: Oil Well

DEPTHS & FORMATIONS

(All measurements from K.B.)

Dakota Sand	645'	Sand & Shale	2278'
Shale	686'	Lime & Shale	2865'
Cedar Hills	1090!	Shale & Lime	3120'
Shale	1295'	Lime & Shale	3337'
Anhydrite	1624'	R.T.D.	3870
Shale	1686'		3870
Lime & Shale	1935'		

STATE OF KANSAS)) ss COUNTY OF RUSSELL)

Kyle B. Branum, of Emphasis Oil Operations, states that the above and foregoing is a true and correct log of the above captioned well, to the best of his knowledge.

Subscribed and sworn to before me on June 9, 1993.

My commission expires: February 6, 1996.

GLENDA R. TIFFIN NOTARY PUBLIC STATE OF KANSAS MY APPT. EXPIRES 2-6-9

Public RECEIVED STATE CORPORATION COMMISSION

AUG 2 5 1993

LARSON ENGINEERING, INC.

CONSULTING PETROLEUM ENGINEERS 562 WEST HIGHWAY 4 OLMITZ, KS 67564-8561



(316) 653-7368

NORWOOD OIL COMPANY

Keller #2

App C E/2 NE NW Sec. 30-10s-19W

Rooks Co., Kansas

2238' KB 2233' GL

Completion Report - Run production casing

O6-07-93 Cut 3870' 7-7/8" hole (driller's TD). RU ELI Wireline. Ran dual ind, comp density-neutron logs (logger's TD 3868'). Ran 96 jts used 5-1/2" 14# R-2 & R-3 ST&C 8rd csg. Tallied 3860.21', set @ 3865' KB, ~4' off bottom, 32.70' shoe jt. Ran centralizers on 1st, 2nd, 3rd, 4th, 5th, 7th, 55th & 72nd collars (3832, 3790, 3751, 3729, 3687, 3606, 1645 & 982') and baskets on 54th, 55th & 73rd jts. RU Halliburton. Cmt w/ 20 bbl 2% KCl flush, 500 gal mud flush & 125 sx 60-40 poz w/ 6% salt, 3/4% H-322 & 7#/sk gilsonite. Rotated pipe. Good returns throughout. Landed plug @ 1000#, float held. Plug down @ 2:00 pm 6-8-93. Plugged rathole w/ 10 sx 60-40 poz. Set slips & released rig @ 2:45 pm 6-8-93.

RECEIVED
STATE CORPORATION COMMISSION

AUG 2 5 1993

FORM 1906 R-12	ALLIBUERGY SI	JRTON ERVICES	ADDRESS	O: TUESSE		COUNTY/PARISH	STATE	CITY/OFFSHORE	LOCAT		io.	TECKED ON MISSION OF STATE OF	NO DE SION
SERVICE LOCATIONS 1. 25525	6	#2		Keller	•	Rooks	·Ks						NEW THE
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TICKET CONTINUATION

ORIGINAL

No. 5/2/26/2

2,832 83

CONTINUATION TOTAL

FORM 1911 R-8						CUSTOMER Norwood	WELL Kel	ller #	# 2	DATE 7-1		LE NIG A	
PRICE	SECONDARY REFERENCE/		ACCOUNTIN	NG	TIME	DESCRIPTION				unit a		AMOUNT	
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MICHAL JOB LOG FORM 2013 R-3 Bock Squeeze TICKET NO. 512126 WELL NO. Norwood Per 2 VOLUME (BBL) (GAL PUMPS PRESSURE(PSI) DESCRIPTION OF OPERATION AND MATERIALS Swabbing 0845 Broke 1900 4 GEBP 300 1480 1455 1 1510 300 Holdin , j 6. 1730 1740 10 **3**65 OAD Hole .. *1615* 1800) **(** 300 1830 500 1839 (munert 1859 950 Dop نمن SPART 1859 ४०० 1100 SUM-1909 (emen σ RACK 2000 POL 排一等 RECEIVED TON COMMISSION A. Se AUG 2 5 1993 Y M CONSERVATION DIVISION Wichita: Kansas

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,		11.	. 7	/WF	KNG			-			MAXIMUM	1 PSI
RMATION NAME		TYPE		 		NEW USED	WEIGHT	SIZE	FROM	то	MAXIMUM ALLOWA	BLE
RMATION THICKNESS		FROM	то .		CASING	19		5/2	1			
ITIAL PROD: OIL	BPD. WATER_	BPD. G	AS	MCFI		1		27/5-	ļ			
ESENT PROD: OIL	BPD. WATER_	BPD. G	AS	MCFT	-	14		28		- 		
MPLETION DATE	MUD TYF	≥ E	MUD WT	· · · · · · · · · · · · · · · · · · ·	OPEN HOLE	•		<i>:</i>			SHOTS/	FT.
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	TOOLS AND A	CCESSORIES	· ? " (/)				ON LOCA	TION .	JOB STARTED	'	JOB COMPLETE	0
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Phone 316-793-5861, Great Bend, Kansas

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

ALLIED CEMENTING CO., INC. 4136 Home Office P. O. Box 31 Russell, Kenses 67665

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TICKET

3/05/3-5

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BULK MATERIALS DELIVERY AND TICKET CONTINUATION

FOR INVOICE A	ND.	
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WORK ORDER CONTRACT

INVOICE & TICKET NO. 34054

AND PRE-TREATMENT DATA FORM 1908 R-7 A Division of Halliburton Company TO. HALLIBURTON SERVICES YOU'ARE HEREBY REQUESTED-TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING WELL NO FASE **FIELD** COLINE STATE OWNED BY THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT"... . 11 FORMATION NAME. NEW USED MAX. ALLOW. WEIGHT FROM то TYPE FORMATION CASING THICKNESS FROM : LINER PACKER: TYPE SET AT TUBING TOTAL DEPTH MUD WEIGHT OPEN HOLE -SHOTS/FT. BORE HOLE PERFORATIONS INITIAL PROD: BPD, H₂O PERFORATIONS PRESENT PROD: BPD, H₂O BPD, GAS **PERFORATIONS** PREVIOUS TREATMENT: DATE TYPE MATERIALS A TUBING/ANNULUS | HYDRAULIC HORSEPOWER ORDERED TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING 0.75% HOPAL CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED As consideration, the above-named Customer agrees: To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term 'well owner" shall include working and royalty interest owners. 2 Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof. Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, substitutes proved and the officer divisions design. subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them. That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information. That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE-WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, which is the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages. That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton. That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive of the same as CUSTOMER'S AGENT.

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THE f) g) CONSERVATION DIVISION SIGNED Wichita, Kansas CUSTOMER We certify that the Fair Labor Standards Act of 1938, as amended, has been compiled with in the production of goods and/or with respect to services furnished under this contract.



JOB

SUMMARY HALLIBURTON HOUSE KE

DIVISION

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HALLIBURTON SERVICES JOB LOG

FORM 2013 R-2

DATE 6-8-93

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