

ORIGINAL

SIDE ONE

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

API NO. 15- 185-22,642-0000

County Stafford

NW NW SW Sec. 20 Twp. 22 Rge. 12 East West

2310 Ft. North from Southeast Corner of Section

4950 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Lease Name Nolte Well # 1-20

Field Name Krankenber

Producing Formation Lansing - Kansas City

Elevation: Ground 1870 KB 1875

Depth 3820 PBTB

Operator: License # 03581

Name: Red Oak Energy, Inc.

Address 111 W. Douglas, Suite 507

City/State/Zip Wichita, KS 67202

Purchaser: Texaco Trading & Transportation

Operator Contact Person: Kevin Davis

Phone (316) 265-9925

Contractor: Name: Allen Drilling Company

License: 5418

Wellsite Geologist: Scott Banks

RECEIVED
MAY 15 1990
STATE CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
Wichita Kansas

Designate Type of Completion

New Well Re-Entry Workover
 Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

If OWMO: old well info as follows:

Operator: N/A

Well Name: _____

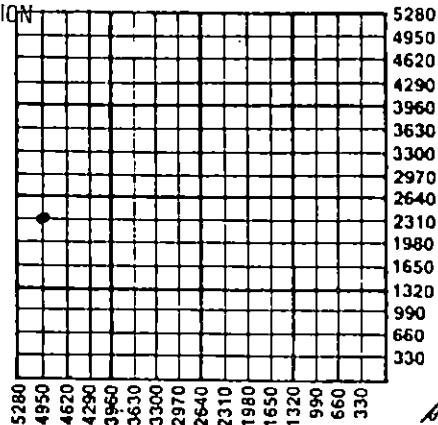
Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

12/21/89 1/01/90 1/18/90

Spud Date Date Reached TD Completion Date



Amount of Surface Pipe Set and Cemented at 260 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 [Signature] /Red Oak Energy, Inc.

Title President date 4/28/90

Subscribed and sworn to before me this 28th day of April, 19 90.

Notary Public [Signature]

Date Commission Expires 2-1-92

JULIE G. WEST
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 2-1-92

K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

ORIGINAL

PI X

34510710

SIDE TWO

Operator Name RED OAK ENERGY, INC. Lease Name Nolte Well # 1-20
Sec. 20 Twp. 22 Rge. 12 East West
County Stafford

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 Yes No
(Attach Additional Sheets.)
Samples Sent to Geological Survey Yes No
Cores Taken Yes No
Electric Log Run Yes No
(Submit Copy.)

Formation Description		
Name	Top	Bottom
Anhydrite	680	
Heebner	3184	
Brown Lime	3320	
Base KC	3564	
Viola	3630	
Simpson Sh	3680	
Arbuckle	3743	

CASING RECORD New 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	12-1/4	8-5/8" NEW	23#	260'	60/40 poz	185	2% gel, 3% cc
Production	7-7/8	5-1/2"	14.5#	3820'	60/40 poz	175	2% gel, 3% cc

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
2	3744-48	CIBP @ 3700'	
2	3534-38	250 gals. double strength FE	
2	3504-08	500 gals. 15% NF	

TUBING RECORD Size 2 7/8" Set At 3656' Packer At _____
116 jts. Liner Run Yes No

Date of First Production 1/18/90 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	55	5	5	35 ⁰	

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)
METHOD OF COMPLETION: Open Hole Perforation Dually Completed Commingled
 Other (Specify) _____ Production Interval 3504-3800

ORIGINAL

15-185-22642-0000

DALLAS, TX 75395-1045

Equip to Cent Long **HALLIBURTON SERVICES**

A Halliburton Company

ORIGINAL

INVOICE NO. 890857 DATE 01/03/1990

WELL LEASE NO./PLANT NAME 1-20		WELL/PLANT LOCATION STAFFORD		STATE KS	WELL/PLANT OWNER RED OAK ENERGY
SERVICE LOCATION GREAT BEND		CONTRACTOR ALLEN DRILLING CO.	JOB PURPOSE CEMENT PRODUCTION CASING		TICKET DATE 01/03/1990
ACCT NO.	CUSTOMER AGENT RUSSELL BRIGHT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA COMPANY TRUCK	FILE NO. 8449

REDOAK ENERGY, INC.
 * * * * COPY - DO NOT MAIL * * * *
 * * * * COPY - DO NOT MAIL * * * *
 * * * * COPY - DO NOT MAIL * * * *

DIRECT CORRESPONDENCE TO:
 SUITE 600
 COLORADO DERBY BUILDING
 WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE	21	MI	2.20	46.20
		1	UNT		
001-016	CEMENTING CASING	3819	FT	1,034.00	1,034.00
		1	UNT		
030-018	CEMENTING PLUG SW, PLASTIC TOP	5 1/2	IN	53.00	53.00
		1	EA		
*0	CENTRALIZER 5-1/2" MODEL S-4	10	EA	44.00	440.00
807.93022					
12A	GUIDE SHOE - 5 1/2" 8RD THD.	1	EA	104.00	104.00
825.205					
24A	INSERT FLOAT VALVE - 5 1/2" 8RD	1	EA	83.00	83.00
815.19251					
27	FILL-UP UNIT 5 1/2"-6 5/8"	1	EA	30.00	30.00
815.19311					
019-241	ROTATING HEAD	1	JOB	155.00	155.00
018-317	SUPER FLUSH	10	SK	74.00	740.00
320	CEMENT BASKET 5 1/2"	1	EA	90.00	90.00
800.8883					
504-308	STANDARD CEMENT	105	SK	5.35	561.75
506-105	POZMIX A	70	SK	2.79	195.30
506-121	HALLIBURTON-GEL 2%	3	SK	.00	N/C
509-968	SALT BLENDED	800	LB	.052	41.60
509-968	SALT NOT MIXED	400	LB	.052	20.80
508-291	GILSONITE	400	LB	.35	140.00
507-775	HALAD-322	75	LB	5.60	420.00
500-207	BULK SERVICE CHARGE	200	CFT	.95	190.00
500-306	MILEAGE CMTG MAT DEL OR RETURN	178.77	TMI	.70	125.14

RECEIVED
 STATE CORPORATION COMMISSION
 MAY 15 1990
 CONSERVATION DIVISION
 Wichita, Kansas

INVOICE SUBTOTAL

4,459.79

***** CONTINUED ON NEXT PAGE *****

TERMS INVOICES 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 AN ATTORNEY 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.

 *** COPY *** COPY
 PAGE:

ARROW TESTING COMPANY

P. O. BOX 1051

GREAT BEND, KANSAS 67530

15-185-22642-0000

DRILL-STEM TEST DATA

Well Name	<i>Nolte</i>	Test No.	<i>3</i>
Well Number	<i>1-20</i>	Zone Tested	<i>KC</i>
Company	<i>Red Oak Energy, Inc.</i>	Date	<i>12-30-89</i>
Comp. Rep.	<i>S. Banks</i>	Tester	<i>Don Fabricius</i>
Contractor	<i>Allen Drilling</i>	Ticket No.	<i>2792</i>
Location	<i>20-22-12</i>	Elevation	

Recorder No. 3088 Clock Range 12 Recorder No. 4377 Clock Range 12

Depth 3400 Depth 3434

Initial Hydro Mud Press. 1704 Initial Hydro Mud Press. 1707

Initial Shut-in Press. 1117 Initial Shut-in Press. 1112

Initial Flow Press. 70-35 Initial Flow Press. 105-58

Final Flow Press. 47-70 Final Flow Press. 70-82

Final Shut-in Press. 1094 Final Shut-in Press. 1089

Final Hydro Mud Press. 1704 Final Hydro Mud Press. 1707

Temperature 106 Tool Open Before I. S. I. 30 Mins.

Mud Weight 8.7 Viscosity 52 Initial Shut-in 45 Mins.

Fluid Loss 28 Flow Period 45 Mins.

Interval Tested 3424-38 Final Shut-in 60 Mins.

Top Packer Depth 3419 Surface Choke Size 1 1/2

Bottom Packer Depth 3424 Bottom Choke Size 3/4"

Total Depth 3438 Main Hole Size 7 7/8

Drill Pipe Size 4 1/2 X H Wt. 16.60 Rubber Size 6 3/4

Drill Collar I. D. _____ Ft. Run _____

Recovery—Total Feet _____

Recovered 160 Feet Of muddy water with scum of oil on top

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

KCC

Remarks _____

Gas to surface in 6 min. Gauge 121,000 in 10 min T.S.T.M. in 15 min.

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Arrow Testing Company shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Arrow Testing Company, nor whether resulting from the acts or omissions of Arrow Testing Company, or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

It is expressly understood and agreed that Arrow Testing Company, shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Arrow Testing Company has authority to alter or extend the terms of this agreement. I have read and understand the terms of this agreement and represent that I am authorized to sign the same as agent of customer.

By _____
Owner, Operator or his Agent

DRILL-STEM TEST DATA

Well Name	<i>Nolte</i>	Test No.	2
Well Number	1-20	Zone Tested	KC
Company	<i>Red Oak Energy, Inc.</i>	Date	12-28-89
Comp. Rep.	<i>S. Banks</i>	Tester	<i>Don Fabricius</i>
Contractor	<i>Allen Drilling</i>	Ticket No.	2791
Location	20-22-12	Elevation	

Recorder No. 3088 Clock Range 12 Recorder No. 4377 Clock Range 12
 Depth 3410 Depth 3414
 Initial Hydro Mud Press. 1727 Initial Hydro Mud Press. 1729
 Initial Shut-in Press. 1036 Initial Shut-in Press. 1054
 Initial Flow Press. 235-223 Initial Flow Press. 246-246
 Final Flow Press. 282-258 Final Flow Press. 293-269
 Final Shut-in Press. 1025 Final Shut-in Press. 1043
 Final Hydro Mud Press. 1727 Final Hydro Mud Press. 1729
 Temperature 105 Tool Open Before I. S. I. 30 Mins.
 Mud Weight 8.7 Viscosity 52 Initial Shut-in 45 Mins.
 Fluid Loss 28 Flow Period 45 Mins.
 Interval Tested 3390-3418 Final Shut-in 60 Mins.
 Top Packer Depth 3385 Surface Choke Size 1 1/2
 Bottom Packer Depth 3390 Bottom Choke Size 3/4"
 Total Depth 3418 Main Hole Size 7 7/8
 Drill Pipe Size 4 1/2 X H Wt. 16.60 Rubber Size 6 3/4
 Drill Collar I. D. _____ Ft. Run _____
 Recovery—Total Feet _____
 Recovered 260 Feet Of slightly muddy oil
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____

KCC

Remarks
Gas to surface in 90 seconds. Gauge - 995,000 in 10 min. & stable
thru initial flow - sec. open - gauge - 1,036,000 in 10 - 953,000
in 20 - 908,000 in 30 & stable thru-test

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Arrow Testing Company shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Arrow Testing Company, nor whether resulting from the acts or omissions of Arrow Testing Company, or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

It is expressly understood and agreed that Arrow Testing Company, shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Arrow Testing Company has authority to alter or extend the terms of this agreement. I have read and understand the terms of this agreement and represent that I am authorized to sign the same as agent of customer.

By _____
 Owner, Operator or his Agent

15-185-22642-0000

DRILL-STEM TEST DATA

Well Name <i>Nolte</i>	Test No. <i>1</i>
Well Number <i>1-20</i>	Zone Tested <i>KC</i>
Company <i>Red Oak Energy, Inc.</i>	Date <i>12-28-89</i>
Comp. Rep. <i>K. Davis</i>	Tester <i>Don Fabricius</i>
Contractor <i>Allen Drilling</i>	Ticket No. <i>2790</i>
Location <i>20-22-12</i>	Elevation

Recorder No. <u>3088</u>	Clock Range <u>12</u>	Recorder No. <u>4377</u>	Clock Range <u>12</u>
Depth <u>3383</u>		Depth <u>3387</u>	
Initial Hydro Mud Press. <u>1727</u>		Initial Hydro Mud Press. <u>1718</u>	
Initial Shut-in Press. <u>1289</u>		Initial Shut-in Press. <u>1298</u>	
Initial Flow Press. <u>978-978</u>		Initial Flow Press. <u>985-985</u>	
Final Flow Press. <u>931-990</u>		Final Flow Press. <u>938-997</u>	
Final Shut-in Press. <u>1289</u>		Final Shut-in Press. <u>1295</u>	
Final Hydro Mud Press. <u>1727</u>		Final Hydro Mud Press. <u>1718</u>	
Temperature <u>104</u>		Tool Open Before I. S. I. <u>5</u>	Mins.
Mud Weight <u>9.1</u>	Viscosity <u>44</u>	Initial Shut-in <u>30</u>	Mins.
Fluid Loss <u>10</u>		Flow Period <u>15</u>	Mins.
Interval Tested <u>3350-91</u>		Final Shut-in <u>45</u>	Mins.
Top Packer Depth <u>3345</u>		Surface Choke Size <u>1 1/2</u>	
Bottom Packer Depth <u>3350</u>		Bottom Choke Size <u>3/4"</u>	
Total Depth <u>3391</u>		Main Hole Size <u>7 7/8</u>	
Drill Pipe Size <u>4 1/2 X H</u>	Wt. <u>16.60</u>	Rubber Size <u>6 3/4</u>	
Drill Collar I. D. _____	Ft. Run _____		

Recovery—Total Feet _____

Recovered 160 Feet Of slightly muddy water

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

K C C

Remarks

Gas to surface in 1 min. No gauge on initial flow - second open

gauge 1,824,000 in 5 min. - 2,441,000 in 10 min. & stable thru-test.

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Arrow Testing Company shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Arrow Testing Company, nor whether resulting from the acts or omissions of Arrow Testing Company, or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

It is expressly understood and agreed that Arrow Testing Company, shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Arrow Testing Company has authority to alter or extend the terms of this agreement. I have read and understand the terms of this agreement and represent that I am authorized to sign the same as agent of customer.

By _____
 Owner, Operator or his Agent