

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

API NO. 15- 097-21,289-0000

County Kiowa  
240 East  
C NW SW Sec. 15 Twp. 27S Rge. 19 X West

Operator: License # 5118

1980 Ft. North from Southeast Corner of Section

Name: TGT Petroleum Corp.

4380 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

Address 209 E. William

Lease Name Rader Well # 1

City/State/Zip Wichita, Ks. 67202

Field Name Quaker South

Purchaser: Clear Creek

Producing Formation Lansing

Operator Contact Person: B. Lynn Herrington

Elevation: Ground 2239 KB 2251

Phone (316) 262-6489

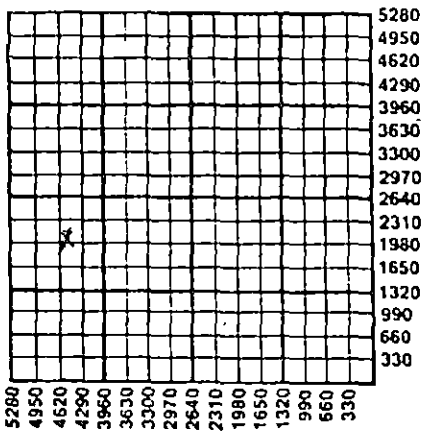
Total Depth 4875 PBD 4847

Contractor: Name: Abercrombie Drilling

License: 5422

Wellsite Geologist: Al Stude

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



If **OMMO**: old well info as follows:  
Operator: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 413 Feet

Well Name: \_\_\_\_\_

Multiple Stage Cementing Collar Used?  Yes  No

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

If yes, show depth set. \_\_\_\_\_ Feet

Drilling Method:  
 Mud Rotary  Air Rotary  Cable

If Alternate II completion, cement circulated from \_\_\_\_\_

6/21/90 7/3/90 8/31/90  
Spud Date Date Reached TD Completion Date

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 B. Lynn Herrington  
Title Ex. Vice-President Date 10/12/90

**K.C.C. OFFICE USE ONLY**  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Drillers Time Log Received  
STATE CORPORATION COMMISSION  
Distribution  
OCT 1 KCC 1990  SWD/Rep  NGPA  
KGS 1990  Plug  Other  
(Specify)

Subscribed and sworn to before me this 12th day of Oct., 1990.  
Notary Public Judith K. Moser  
Date Commission Expires May 17, 1993

JUDITH K. MOSER  
NOTARY PUBLIC  
STATE OF KANSAS  
My Appt. Exp. May 17, 1993

ACO 10-15-90

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SIDE TWO

Operator Name TGT Petroleum Corp. Lease Name Rader Well # 1

Sec. 15 Twp. 27S Rge. 19  East  West County Kiowa

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Formation Description																														
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 type="checkbox"/> Yes <input type="checkbox"/> No																															
		<input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample																														
		<table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Bottom</th> </tr> </thead> <tbody> <tr><td>Anhydrite</td><td>1224</td><td>+1027</td></tr> <tr><td>Topeka</td><td>3700</td><td>-1459</td></tr> <tr><td>Heebner</td><td>4041</td><td>-1790</td></tr> <tr><td>Brn Lime</td><td>4188</td><td>-1937</td></tr> <tr><td>Lansing</td><td>4194</td><td>-1943</td></tr> <tr><td>B/KC</td><td>4591</td><td>-2340</td></tr> <tr><td>Cherokee</td><td>4718</td><td>-2467</td></tr> <tr><td>Mississippi</td><td>4781</td><td>-2530</td></tr> <tr><td>LTD</td><td>4874</td><td>-2623</td></tr> </tbody> </table>	Name	Top	Bottom	Anhydrite	1224	+1027	Topeka	3700	-1459	Heebner	4041	-1790	Brn Lime	4188	-1937	Lansing	4194	-1943	B/KC	4591	-2340	Cherokee	4718	-2467	Mississippi	4781	-2530	LTD	4874	-2623
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**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 3/4"	8 5/8"	24#	413'	60-40 Poz	100	3% cc, 2% gel
Production		5 1/2"	14#	4873'	Halcolt	150	2% cc, 6% gel
					50-50 Poz	75	15# gel
						170	10% salt, 1/2 of 1%

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4288'-91'	300 gal. DS FE acid 1000 gal. MOD202	4288'-91'

**TUBING RECORD** Size 2 3/8" Set At 4849' Packer At \_\_\_\_\_ Liner Run  Yes  No

Date of First Production Aug. 31, 1990 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours  
 Oil 115 Bbls. Gas -0- Mcf Water -0- Bbls. Gas-Oil Ratio \_\_\_\_\_ Gravity \_\_\_\_\_

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: 4288'-91'

Stamp: OIL & GAS DIVISION, OKLAHOMA DEPARTMENT OF REVENUE, OKLAHOMA

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RADER #1 - DRILL STEM TESTS  
240' E C NW SW  
Sec. 15-27S-19W, Kiowa County, Ks.

- DST #1 - 4232'-4260'. 60-60-60-60 Strong blow thruout. GTS in 4 min. Rec. 5' mud. IF 72-82, FF 82-82. ISIP 1435, FSIP 1435. Temp. 118°.
- DST #2 - 4278'-4300'. 60-60-60-60 Strong blow thruout. GTS in 12 min. Rec. 1320' gassy oil, 380' muddy gassy oil, 1700' total fld. IF 72-309, FF 339-494. ISIP 1415, FSIP 1384. Temp. 112°.
- DST #3 - 4448'-4470'. 30-30-30-30 Weak blow 25 min. Rec. 20' mud. IF 21-21, FF 31-31. ISIP 1347, FSIP 1292. Temp. 118°.
- DST #4 - 4472'-4485'. 30-30-30-30 Weak blow thruout. Rec. 85' muddy water. IF 10-31, FF 31-51. ISIP 1056, FSIP 1026. Temp. 120°.
- DST #5 - 4750'-4804'. 60-60-60-60 Strong blow. GTS in 7 min. Rec. 90' gas cut mud. IF 51-103, FF 51-72. ISIP 1415 FSIP 1394.
- DST #6 - 4808'-4814'. 60-60-60-60 GTS in 23 min. Rec. 80' slightly oil & gas cut mud. IF 21-51, FF 21-41. ISIP 1394, FSIP 1364.
- DST #7 - 4814'-4824'. 60-60-60-60 GTS in 9 min. Rec. 150' gas & oil cut mud, 100' very heavy oil cut mud & 80' water. IF 20-123, FF 41-144. ISIP 1435, FSIP 1415.

OCT 22 1990

AND  
TICKET CONTINUATIONS

A Division of Halliburton Company

ORIGINAL

CONFIDENTIAL  
FROM CONFIDENTIAL

DATE 7-3-90	CUSTOMER ORDER NO.	WELL NO. AND FARM Rader #1	COUNTY Kiowa	STATE Ks.
CHARGE TO T. G. T. Petroleum		OWNER T.G.T. Petro.	CONTRACTOR Abercrombie Drlg.	No. B 889108
MAILING ADDRESS		DELIVERED FROM Great Bend, Ks.	LOCATION CODE 50320	PREPARED BY S. C. Henry
CITY & STATE		DELIVERED TO Location	TRUCK NO. 2656-6605	RECEIVED BY

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
504-316				Halliburton Light Cement	75	sk			5.64	423.00	
				175 50/50 Pozmix Cement							
504-308	516.00261	2	B	Standard Cement	85	sk			5.35	454.75	
506-105	516.00286	2	B	Pozmix A	85	sk			2.79	237.15	
506-121	516.00259	2	B	3 Halliburton Gal 2% allowed						NC	
509-968	516.00315	2	B	salt Blended 10%W/170	800	lb.			.09	72.00	
508-292	70.15573	2	B	Gilsonite Blended 15%W/75	1150	lb.			.42	483.00	
507-153	516.00161	2	B	CFR-3 Blended 5%W/170	71	lb.			3.90	276.90	
509-554	890.50051	2	B	Halliburton Gal	1	sk			13.75	13.75	
					Returned Mileage Charge	TOTAL WEIGHT		LOADED MILES	TON MILES		
					SERVICE CHARGE ON MATERIALS RETURNED				CU. FEET		
500-207		2	B	SERVICE CHARGE				CU. FEET 279	1.10	306.90	
500-306		2	B	Mileage Charge	23,502		48	564.05	.75	423.04	
No. B 889108					CARRY FORWARD TO INVOICE				SUB-TOTAL	2690.49	
									<del>2676.74</del>		

THIS IS NOT AN INVOICE



BULK MATERIALS DELIVERY

AND

ORIGINAL

TICKET CONTINUATION

FOR INVOICE AND TICKET NO.

999877

CONFIDENTIAL  
FROM CONFIDENTIAL  
NOV 10 9 15 AM '66

DATE 6-21-90	CUSTOMER ORDER NO.	WELL NO. AND FARM Rader #1	COUNTY Kiowa	STATE Ks.
CHARGE TO T. G. T. Petroleum		OWNER T.G. T. Petro.	CONTRACTOR Abercrombie Drlg.	No. B 888980
MAILING ADDRESS		DELIVERED FROM Great Bend, Ks.	LOCATION CODE 50320	PREPARED BY S. C. Henry
CITY & STATE		DELIVERED TO Location	TRUCK NO. 3046-6608	RECEIVED BY Kane 1345

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
504-316		2	B	Halliburton Light Cement 100 40% Pozmix/60% Cement	150	sk			5.64	846.00	
504-308	516.00261	2	B	Standard Cement	60	sk			5.35	321.00	
506-105	516.00286	2	B	Pozmix A	40	sk			2.79	111.60	
506-121	516.00259	2	B	2 Halliburton Gel 2% allowed						NC.	
509-406	890.50812	2	B	Calcium Chloride 3% / 100 2% / 150	6	sk			26.25	157.50	
					Returned Mileage Charge	TOTAL WEIGHT		LOADED MILES	TON MILES		
					SERVICE CHARGE ON MATERIALS RETURNED				CU. FEET		
500-207		2	B	SERVICE CHARGE				262	1.10	288.20	
500-306		2	B	Mileage Charge	23,082		48	553.97	.75	415.48	
					TOTAL WEIGHT	LOADED MILES	TON MILES				
No. B 888980		CARRY FORWARD TO INVOICE					SUB-TOTAL		2139.78		

THIS IS NOT AN INVOICE