

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION OR RECOMPLETION FORM  
ACO-1 WELL HISTORY

DESCRIPTION OF WELL AND LEASE

Operator: License # 6785  
Name Robert Schulein  
Address 1776 Lincoln St., Suite 811  
City/State/Zip Denver, Colorado 80203

Purchaser National Cooperative Refinery Assoc  
McPherson, Kansas

Operator Contact Person Robert Schulein  
Phone 303-839-5495

Contractor: License # 5302  
Name Red Tiger Drilling Company

Wellsite Geologist Macklin Armstrong  
Phone (316) 722-5141

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

If OWWO: old well info as follows:  
Operator  
Well Name  
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable

7/11/86 7/22/86 8-22-86  
Spud Date Date Reached TD Completion Date

4,330' 4309'  
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 247.96 feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set.....feet  
If alternate 2 completion, cement circulated  
from.....feet depth to.....w/.....SX cmt

API NO. 15-191-21,940-0000  
County Summer  
C NE/4 SE/4 8 30S 3W  East  West

1980 Ft North from Southeast Corner of Section  
600 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

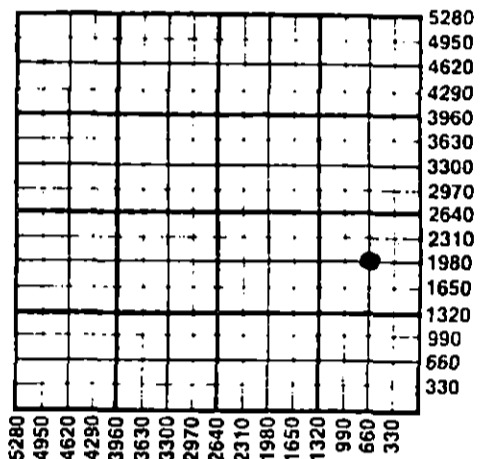
Lease Name Leddy Well # 9-8

Field Name

Producing Formation Simpson

Elevation: Ground 1359' KB 1364'

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water:  Disposal  Repressuring  
Docket #

Questions on this portion of the ACO-1 call:  
Water Resources Board (913) 296-3717

Source of Water:  
Division of Water Resources Permit #  
 Groundwater.....Ft North from Southeast Corner (Well) .....Ft West from Southeast Corner of Sec Twp Rge  East  West  
 Surface Water 800 Ft North from Southeast Corner (Stream, pond) etc. 4000 Ft West from Southeast Corner Sec 8 Twp 30S Rge 3  East  West Steffen Farms, Conway Springs, Ks.  
 Other (explain).....  
(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 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 drillers time log shall be attached with this form. 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  
Title Operator Date 8-27-86

Subscribed and sworn to before me this 27th day of August 1986...  
Notary Public Georgia D. Larson - 1776 Lincoln St., #811, Denver, CO  
Date Commission Expires July 3, 1988

K.C.C. OFFICE USE ONLY

- Letter of Confidentiality Attached
- Wireline Log Received
- Drillers Timelog Received

Distribution

- KCC
- KGS
- SWD/Rep
- Plug
- NGPA
- Other (Specify)

Sec. 8, Twp 30S, Rge 3W

SIDE TWO

Operator Name Robert Schulein Lease Name Leddy Well # 9-8

Sec. 8 Twp. 30S Rge. 3W County Sumner

East  
 West

WELL LOG

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  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No

Formation Description  
 Log  Sample

See attached page No. 3 for DST information.

Name	Top	Bottom	
	Sample	Log	Datum
White Cloud	2056	2055	( -691)
Howard	2114	2112	( -748)
Topeka	2253	2252	( -888)
Heebner	2627	2628	(-1264)
Iatan	2897	2898	(-1534)
Stalnaker	2924	2925	(-1561)
Kansas City	3224	3224	(-1860)
Stark	3353	3352	(-1988)
Bs Kansas City	3428	3428	(-2064)
Marmaton	3511	3510	(-2146)
Cherokee	3649	3648	(-2284)
Mississippian	3826	3824	(-2460)
Kinderhook	4170	4168	(-2804)
Simpson	4256	4254	(-2890)
TD	4330	4329	(-2965)

CASING RECORD <input checked="" type="checkbox"/> New & <input checked="" 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	12 1/4"	8 5/8"	20#	255.16'	60/40 Poz	150	3%CC, 2% Gel
Production	7 7/8"	5 1/2"	14#	4,330'	EA-2 gilsonite, 10 bol.	125	7# per sx superflush
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
	Perfd w/6 jets 4256-4258'			Acidized with 250 gal 15% mud acid, load hole w/salt water.			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Size Set At		Packer at			
8-22-86		72 jts, 2-7/8" tbq set at 2248'		(no pkr)			
Producing Method							
		<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....					
Estimated Production Per 24 Hours.	Oil		Gas		Water		Gas-Oil Ratio
	40 Bbls		No excess MCF		300 Bbls		CFPB
METHOD OF COMPLETION							Production Interval
Disposition of gas: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" type="checkbox"/> Used on Lease							4256-4258'
<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perforation <input type="checkbox"/> Other (Specify) .....							.....
<input type="checkbox"/> Dually Completed <input type="checkbox"/> Commingled							.....

Schulein #9-8 Leddy  
 C NE SE, Section 8-30S-3W  
 Sumner County, Kansas  
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Drill Stem Test Information

- DST #1: 3227-3258'. Open 30 min, weak surging blow throughout. SI 60 min, Open 45 min, strong blow off bottom of bucket in 3 min. Decreased to weak blow. SI 90 min. Rec. 45' oil and gas cut mud (5% oil, 15% gas, 80% mud); 30' heavy oil cut mud (6% wtr, 2% gas, 30% oil, 60% mud). IHP 1682, IFP 42-53, ISIP 287, FFP 63-63, FSIP 404, FHP 1660. Temp. 117°.
- DST #2: 3841-3884'. Open 30 min, good surge, then weak blow that died in 1 min. SI 30 min, Open 30 min, no blow, flushed tool, good surge, no help. SI 30 min. Rec. 30' mud. IHP 2098; IFP 63-63; ISIP 85; FFP 63-63; FSIP 63; FHP 2077. Temp. 124°.
- DST #3: 4082-4125'. Open 30 min, strong blow off bottom of bucket in 13 min. SI 60 min, Open 45 min, strong blow off bottom of bucket in 13 min. SI 90 min. Rec. 960' salt wtr (79,000 chl). IHP 2214; IFP 85-95; ISIP 1585; FFP 202-446; FSIP 1575; FHP 2182. Temp. 137°.
- DST #4: 4257-4274'. Open 30 min, strong blow off bottom of bucket in 30 seconds. Gas to surface 15 min into initial shut-in period. SI 60 min. Open 45 min, gas immediately. Gas readings fluctuated between 5000 and 9000 cu. ft. per day. SI 90 min. Rec. 900' very gassy wtr-cut oil (22% gas, 13% wtr, 6% mud, 59% oil), 2200' very gassy salt wtr (55,000 Chl). IHP 2277; IFP 500-1067; ISIP 1447; FFP 1151-1383; FSIP 1447; FHP 2235. Temp. 156°.
- DST #5: 4255-4261' (Straddle Test). Open 30 min, weak blow building to strong off bottom of bucket in 21 min. SI 60 min. Open 45 min, strong blow off bottom of bucket in 8 min. SI 90 min. Rec. 1865' gas in pipe, 65' gassy mud-cut oil (10% mud, 5% wtr, 40% gas, 45% oil - 44 grav. corrected). IHP 2308; IFP 42-53; ISIP 1457; FFP 53-63; FSIP 1468; FHP 2287. Temp. 140°.

RELEASED

SEP 10 1987

FROM CONFIDENTIAL

AUG 7 9