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

COPY

API No. 15- 167-23,055

County Russell

8-15-12W 2nd

NE - SE - NE - ____ Sec. 8 Twp. 15S Rge. 12 E X W

3630 Feet from S/N (circle one) Line of Section

330 Feet from E/W (circle one) Line of Section

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

Lease Name Irwin Well # 7

Field Name Hall-Gurney

Producing Formation Gorham Sand

Elevation: Ground 1800' KB 1805'

Total Depth 3231' PBTD ____

Amount of Surface Pipe Set and Cemented at 723 Feet

Multiple Stage Cementing Collar Used? ____ Yes X No

If yes, show depth set ____ Feet

If Alternate II completion, cement circulated from ____

feet depth to ____ w/ ____ sx cmt.

Drilling Fluid Management Plan 8-11-93
(Data must be collected from the Reserve Pit)

Chloride content 75,000 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. ____

Operator: License # 6246 8913

Name: Bennett & schulte Oil Co.

Address P. O. Box 329

City/State/Zip Russell, KS 67665

Purchaser: NCRA

Operator Contact Person: Frank Schulte

Phone (913) 483-2721

Contractor: Name: Emphasis Oil Operations

License: 8241

Wellsite Geologist: Dave Shumaker

Designate Type of Completion
X New Well ____ Re-Entry ____ Workover

X Oil ____ SWD ____ SIOW ____ Temp. Abd.
____ Gas ____ ENHR ____ SIGW
____ Dry ____ Other (Core, WSW, Expl., Cathodic, etc)

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

Operator: ____

Well Name: ____

Comp. Date ____ Old Total Depth ____

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

5/18/93 Spud Date
5/25/93 Date Reached TD
6/10/93 Completion Date

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 Frank R. Schulte
Frank R. Schulte

Title Partner Date 7/28/93

Subscribed and sworn to before me this 28th day of July, 19 93.

Notary Public ____

Date Commission Expires 5-17-97

JIM B. DANIEL
Notary Public - State of Kansas
My Appt. Expires 5-17-97

K.C.C. OFFICE USE ONLY
F ____ Letter of Confidentiality Attached
C ✓ Wireline Log Received
C ____ Geologist Report Received

Distribution
✓ KCC ____ SWD/Rep ____ NGPA
✓ KGS ____ Plug ✓ Other (Specify) IS

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Form ACO-1 (7-91)

302?9?

Operator Name Bennett & Schulte Oil Co. Lease Name Irwin Well # 7

☐ East
☒ West

Sec. 8 Twp. 15S Rge. 12 County Russell

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.) ☒ Yes ☐ No

Samples Sent to Geological Survey ☐ Yes ☒ No

Cores Taken ☐ Yes ☒ No

Electric Log Run (Submit Copy.) ☒ Yes ☐ No

List All E.Logs Run:

Radiation Guard (Open Hole)

☒ Log Formation (Top), Depth and Datums ☐ Sample

Name	Top	Datum
Anhydrite	714	+1077
Base Anhydrite	744	+1047
Topeka	2604	-813
Heebner	2838	-1047
Brown Lime	2920	-1129
Lansing	2934	-1143
Base Kansas City	3198	-1407
Gorham Sand	3216	-1425
RTD	3231	-1440
LTD	3228	-1437

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"	20	723'	60/40poz	325	2%ge13%cc
Production	7 7/8"	5 1/2"	15.50	3312'	60/40poz	135	2%ge13%cc

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top	Depth Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate					
___ Protect Casing					
___ Plug Back TD					
___ Plug Off Zone					

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
Open Hole	3212-3231	None	

TUBING RECORD Size 2 7/8" Set At 3212 Packer At Liner Run ☐ Yes ☒ No

Date of First, Resumed Production, SWD or Inj.	Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)			
June 10, 1993				
Estimated Production Per 24 Hours	**Oil Bbls.**	**Gas Mcf**	**Water Bbls.**	**Gas-Oil Ratio** / **Gravity**
	50	None	None	

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

_____
_____

COPY

DRILL STEM TESTS

Drill Stem Test No. 1 2959-75 Lansing C Zone

Time: 45-45-45-45

Flows: 1st Open - strong - gas to surface in 11 min.
2nd Open - strong

Recovery:
150 Feet of thin gas cut mud with a show of oil

Pressures:

IHMP:	1530#	IFP:	67# - 67#
ISIP:	277#	FFP:	84# - 84#
FSIP:	261#	BHT:	N.A
FHMP:	1506#		

Mud Properties:
Viscosity: 41 Weight: 9.3 Water loss: 12.0

Drill Stem Test No. 2 2979-3032 Lansing-Kansas F and G Zone

Time: 45-45-45-45

Flows: 1st Open - good - bottom of bucket in 8 min.
2nd Open - fair to good

Recovery:
570 Feet of slightly gas cut muddy water with spots of oil

Pressures:

IHMP:	1553#	IFP:	101# - 152#
ISIP:	547#	FFP:	260# - 284#
FSIP:	530#	BHT:	N.A.
FHMP:	1541#		

Mud Properties:
Viscosity: 46 Weight: 9.3 Water loss: 11.0

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COPY

DRILL STEM STEMS CON'T

Drill Stem Test No. 3 3212-31 Gorham Sand

Time: 30-30-30-30

Flows: 1st Open - very good - bottom of bucket in 4 min.
2nd Open - very good

Recovery:
1800 Feet of clean gassy oil

Pressures:

IHMP:	1645#	IFP:	143# - 294#
ISIP:	991#	FFP:	446# - 513#
FSIP:	983#	BHT:	N.A
FHMP:	1637#		

Mud Properties:
Viscosity: 45 Weight: 9.5 Water loss: 11.0

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