

End
22-10-15W

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 # 6600
Name Don Karst Well Service Inc.
Address 201 E 29th
City/State/Zip Hays, KS 67601

Purchaser Farmland Industries
Coffeyville, KS 67337

Operator Contact Person Don Karst
Phone 913-483-3958

Contractor: License # 8241
Name Emphasis Oil Operations

Wellsite Geologist Dave Schumaker
Phone 913-483-3732

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc)

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

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
11-2-85 11-9-85 10-1-86
Spud Date Date Reached TD Completion Date
3460 RTD
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 608 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
Cement Company Name
Invoice #

API No. 15-141-20,221
County Osborne
W/2 NE SE Sec. 22 Twp 10 Rge. 15 East
x West

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

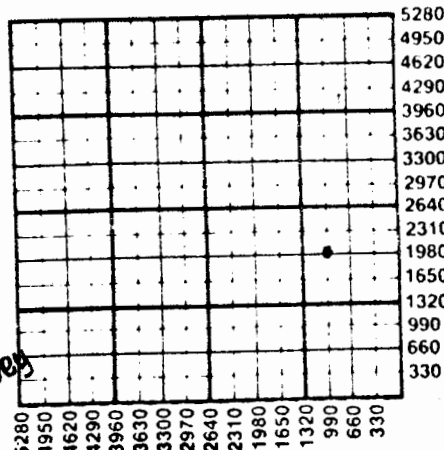
Lease Name Ruggles Well # 1

Field Name Ruggles

Producing Formation Conglomerate-Lansing KC

Elevation: Ground 1794' KB 1799'

Section Plat



FEB 24 1986
State Geological Survey
WICHITA BRANCH

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring

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.....Ft North from Southeast Corner
(Stream, pond etc).....Ft West from Southeast Corner
Sec 22 Twp 10 Rge 15 East x West

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 Donald D. Karst

Title President Date 2-19-86

Subscribed and sworn to before me this 19 day of February 1986

Notary Public Loren D. Sym Anderson

Date Commission Expires March 29, 1987

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

RECEIVED
STATE CORPORATION COMMISSION

Form ACO-1 (7-84)

FEB 20 1986

COPY

Sec 22 Twp 10 Rge 15 E

Operator Name ...Don Karst Well Service..... Lease Name.....Ruggles.....Well #.....1.....

Sec.....22..... Twp.....10..... Rge.....15..... East West County.....Osborne.....

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

DST #1 2973-3030
 Tool Open: 45-45-45-45
 Rec: 450' Gas above Fluid
 150' O&GCM
 IFP: 65-73
 ISIP: 350
 FFP: 89-97
 FSIP: 342
 BHT NA
 DST #2 3287-3340
 Tool open: 45-45-45-45
 Rec: 100' OCM
 IFP: 57-65
 ISIP: 472
 FFP: 73-81
 FSIP: 456
 BHT NA

Name	Top	Bottom
Anhydrite	955'	(+844)
Base Anhy	990'	(+809)
Topeka	2668'	(-869)
Heebner	2912'	(-1113)
Toronto	2934'	(-1135)
Douglas	2946'	(-1147)
LKC	2963'	(-1164)
EKC	3229'	(-1430)
Conglomerate	3329'	(-1530)
Conglomerate Snd	3339'	(-1540)
Arbuckle	3388'	(-1589)
RTD	3460'	(-1661)
LTD	3458'	(-1659)

CASING RECORD <input 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	608	60/40POZ	275	20% salt
Production	7-8/8	5-1/2	15	3447	60/40POZ	200	10% salt, 10% perlite

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
1	3333-34' Limited Entry	500 gal 15% NE	1'
1	3320-3321' Limited Entry		1'
1	3010'	1500 gal 15% NE	
1	2994'	3500 gal 15% NE (Retreat)	

TUBING RECORD	Size	Set At	Packer at	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2-7/8	3413'		

Date of First Production: December 1, 1985
 Producing Method: Flowing Pumping Gas Lift Other (explain).....

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	20 Bbls	— MCF	15 Bbls	CFPB	39.8

METHOD OF COMPLETION Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) Conglomerate...
 Used on Lease Dually Completed Lansing
 Conmingled

22-10-15W 8

EMPHASIS OIL OPERATIONS

P. O. Box 506
Russell, KS 67665

DRILLERS LOG ✕

OPERATOR: Don Karst Well Service, Inc.
201 E. 29th
Hays, KS 67601

CONTRACTOR: Emphasis Oil Operations
Box 506
Russell, KS 67665

LEASE: Ruggles

WELL #1

LOCATION: W/2 NE SE
Section 22-10S-15W
Osborne County, Kansas

Log Total Depth: 3458'

Rotary Total Depth: 3460'

Commenced: 11/2/85

Elevation:

Completed: 11/9/85

Casing: 8-5/8" @ 608' w/275 sks cement
5-1/2" @ 3447' w/200 sks cement

Status: Oil Well

FEB 24 1986

State Geologist
WICHITA STATE UNIVERSITY

DEPTHS & FORMATIONS

(All measurements from K.B.)

Top soil & Shale	50'	Shale & Lime	2735'
Sand & Blue Shale	615'	Lime	2805'
Sand & Shale	959'	Lime & Shale	3185'
Anhydrite	994'	Lime	3340'
Shale	2311'	Lime & Chert	3405'
Lime & Shale	2595'	Lime (R.T.D.)	3460'

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.

[Handwritten signature]