

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 # 4173
Name Col-Kan Development, Inc.
Address P.O. Box 467
City/State/Zip Russell, KS 67665

Purchaser n/a

Operator Contact Person Tim Mahoney
Phone (913) 483-5341

Contractor: License # 8241
Name Emphasis Oil Operations

Wellsite Geologist Mike Bair
Phone (913) 483-3571

Designate Type of Completion

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

If OWWO: old well info as follows:

Operator
Well Name
Comp. Date
Old Total Depth

WELL HISTORY

Drilling Method:

Mud Rotary Air Rotary Cable

1/6/86 1/13/86 1/13/86
Spud Date Date Reached TD Completion Date

3453 LTD
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 455 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. 15-009-24,137-0000

County Barton

SE NE SW Sec 12 Twp 16 Rge 15 East West

1650 Ft North from Southeast Corner of Section
2970 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

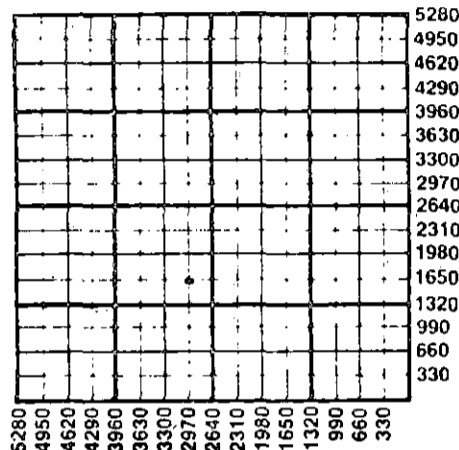
Lease Name Karst Well # 1

Field Name n/a

Producing Formation

Elevation: Ground 1916 KB 1921

Section Plat



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 Twp Rge East 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 [Signature]

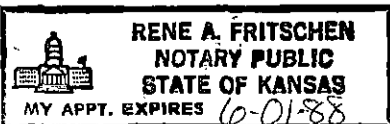
Title President Date 12/12/86

Subscribed and sworn to before me this 12th day of December 1986

Notary Public [Signature]

Date Commission Expires June 01, 1988

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)



203 2333 DEC 17 1986

STATE CORPORATION COMMISSION
Wichita, Kansas

Form ACO-1 (7-84)

12-17-86

Sec. 12 Twp. 16 Rge. 15 W

SIDE TWO

Operator Name Col-Kan Development, Inc. Lease Name Karst Well # 1

Sec. 12 Twp. 16 Rge. 15 East West County Barton

WELL LOG

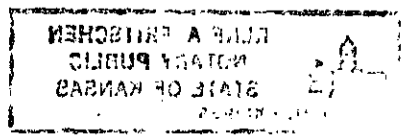
INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, 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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No SEE ATTACHED COPIES OF DST's	Formation Description <input type="checkbox"/> Log <input type="checkbox"/> Sample Name _____ Top _____ Bottom _____ SEE ATTACHED COPY OF DRILLER'S LOG
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------

CASING RECORD <input type="checkbox"/> New <input 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	28	455	60/46POZ	225	3%cc, 2%gel
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Date of First Production		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....					
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity		
	Bbls	MCF	Bbls	CFPB			

METHOD OF COMPLETION Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify)
 Used on Lease Dually Completed
 Commingled



COPY

EMPHASIS OIL OPERATIONS

P. O. Box 506
Russell, KS 67665

DRILLERS LOG

OPERATOR: Col-Kan Development, Inc.
Box 467
Russell, KS 67665

CONTRACTOR: Emphasis Oil Operations
Box 506
Russell, KS 67665

LEASE: Karst WELL #1 LOCATION: SE NE SW
Section 12-16S-15W
Barton County, Kansas

Log Total Depth: 3453'
Rotary Total Depth: 3450 Elevation:
Commenced: 1/6/86 Completed: 1/13/86
Casing: 8-5/8" @ 455' w/225 sks cement Status: Dry Hole

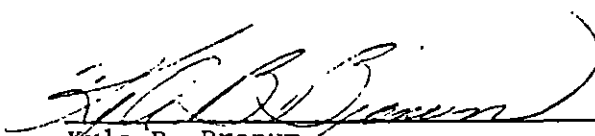
DEPTHS & FORMATIONS

(All measurements from K.B.)

Post rock	40'	Redbed & Shale	1215'
Shale	280'	Shale	2835'
Dakota Sand	555'	Shale & Lime	3412'
Shale & Redbed	930'	Lime & Shale (R.T.D.)	3450'
Anhydrite	959'		

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.

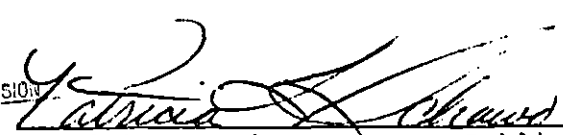

Kyle B. Branum

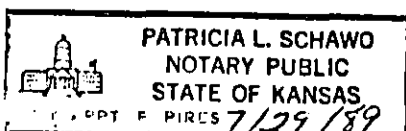
Subscribed and sworn to before me this 15th of January, 1986.
My Commission Expires: July 29, 1989.

STATE CORPORATION COMMISSION

DEC 17 1986

CONSERVATION DIVISION
Wichita, Kansas


Patricia L. Schawo, Notary Public



SUPERIOR TESTERS
RR #1, Box 295B, Great Bend, Kansas

Date 1-10-86 Location SE-NE-SW 12-16-15 Elevation 1921 County BARTON

Company Col-KAN Development, Inc Number of Copies 3

Address PO Box 467 Russell, Ks 67665

Charts Mailed to PO Box 467 Russell, Ks 67665

Invoice Mailed to PO Box 467 Russell, Ks 67665

Lease KARST Well No. 1 Formation Tested Ks C 20NR Test No. 1

Depth 3186 Tested from 3176 to 3186 Packer Size 6 3/4 Anchor Length 10

Top Packer Depth 3171 ft. Bottom Packer Depth 3176 ft. Dual Packers yes

Tool Joint Size 4 1/2 X H Tool Size 5 1/2 00 Hole Size 2 7/8 Did Packer Hold yes

Drilling Contractor Emphasis Oil

Length Drill Pipe 3162 I.D. Drill Pipe 380 Tool Joint Size 4 1/2 in

Length Weight Pipe none I.D. Weight Pipe none Tool Joint Size no

Length Drill Collars none I.D. Drill Collars none Tool Joint Size none

Tool Open I.F.P. from 500 P_m to 5450 P_m 45 min

Tool Closed I.C.I.P. from 545 P_m to 630 P_m 45 min

Tool Open F.F.P. from 630 P_m to 715 P_m 45 min

Tool Closed F.C.I.P. from 715 P_m to 800 P_m 45 min

from [B]	<u>63</u>	P.S.I. to [C]	<u>52</u>	P.S.I.
[D]	<u>630</u>			P.S.I.
from [E]	<u>105</u>	P.S.I. to [F]	<u>84</u>	P.S.I.
[G]	<u>378</u>			P.S.I.

Initial Hydrostatic Pressure [A] 143 P.S.I. Final Hydrostatic Pressure [H] 1591 P.S.I. Maximum Temp 102 °F

Initial Blow weak Blow Building slowly 4" into water

Final Blow weak Building slowly 2" into water

Gas to Surface none Min. Oil to Surface none Min. Mut Weight 9.7 Viscosity 37

Gas Guaged _____

Recovery 90 muddy water

Remarks slide Tool 6' to Bottom

Extra Equipment-Jars none Safety Joint none Extra Packer none Straddle none Hook Wall none

Top Recorder No. 12561 Clock no. 12056 Depth 3180 Cir. Sub none Sampler none

Bottom Recorder No. 12329 Clock No. 27441 Depth 3183 Chlorides - ppts 65000 D.S.T. _____

Price of Job _____

Tool Operator Pat Stone

Approved By _____

SUPERIOR TESTERS, INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND TO THE PROPERTY OR PERSONEL OF THE ONE FOR WHOM A TEST IS MADE, OF FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Ticket No. 8663

DEC 17 1985

CONSERVATION DIVISION
Wichita, Kansas

SUPERIOR TESTERS
RR #1, Box 295B, Great Bend, Kansas

Date 1 11 86 Location 12-16-15 Elevation 1921 KR County Barton

Company Col-KAN Development Number of Copies 3

Address PO Box 467 Russell, KS 67665

Charts Mailed to PO Box 467 Russell, KS 67665

Invoice Mailed to PO Box 467 Russell, KS 67665

Lease KRST Well No. 1 Formation Tested LKC I Test No. 2

Depth 3322 Tested from 3298 to 3322 Packer Size 6 5/8 Anchor Length 24

Top Packer Depth 3293 ft. Bottom Packer Depth 3298 ft. Dual Packers Y

Tool Joint Size 4 1/2 x 4 Tool Size 5200 Hole Size 7 7/8 Did Packer Hold yes

Drilling Contractor Empharis

Length Drill Pipe 3281 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2 x 4

Length Weight Pipe none I.D. Weight Pipe none Tool Joint Size none

Length Drill Collars none I.D. Drill Collars new Tool Joint Size none

Tool Open I.F.P. from 315 m to 345 m 30 min

Tool Closed I.C.I.P. from 345 m to 415 m 30 min

Tool Open F.F.P. from 415 m to 445 m 30 min

Tool Closed F.C.I.P. from 445 m to 515 m 30 min

from [B]	<u>42</u>	P.S.I.	to [C]	<u>42</u>	P.S.I.
[D]	<u>52</u>				P.S.I.
from [E]	<u>42</u>	P.S.I.	to [F]	<u>63</u>	P.S.I.
[G]	<u>63</u>				P.S.I.

Initial Hydrostatic Pressure [A] 1717 P.S.I. Final Hydrostatic Pressure [H] 1676 P.S.I. Maximum Temp 105 °F

Initial Blow Weak Blow off Top of Bucket Died 1st Flush Tool went Blow 1st Died

Final Blow No Blow Flush Tool 4 Times No Help

Gas to Surface NO Min. Oil to Surface none Min. Mut Weight 9.8 Viscosity 37

Gas Guaged _____

Recovery 15' Drilling MVD

Remarks _____

Extra Equipment-Jars None Safety Joint None Extra Packer None Straddle Yes Hook Wall None

Top Recorder No. 13511 Clock no. 13056 Depth 3316 Clr. Sub _____ Sampler None

Bottom Recorder No. 13379 Clock No. 2741 Depth 3319 Chlorides - ppts 63990 D.S.T. _____

Price of Job _____

Tool Operator Pat [Signature]

Approved By _____

SUPERIOR TESTERS, INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND TO THE PROPERTY OR PERSONEL OF THE ONE FOR WHOM A TEST IS MADE, OF FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Ticket No. 8664

RECEIVED
STATE CORPORATION COMMISSION

DEC 17 1985

CONSERVATION DIVISION
Wichita, Kansas

SUPERIOR TESTERS
RR #1, Box 295B, Great Bend, Kansas

15-009-24137-0000

Date 1 12 86 Location 12 16 15 Elevation 1991 ^{KB} County BARTON

Company Col - Kan Development Number of Copies 3

Address Po Box 467 Russell, Ks 67665

Charts Mailed to Po Box 467 Russell, Ks 67665

Invoice Mailed to Po. Box 467 Russell, Ks 67665

Lease KARST Well No. 1 Formation Tested LKC Test No. 3

Depth 3338 Tested from 3309 to 3328 Packer Size 6 3/4 Anchor Length 29

Top Packer Depth 3304 ft. Bottom Packer Depth 3309 ft. Dual Packers yes

Tool Joint Size 4 1/2 x 4 Tool Size Stop Hole Size 7 7/8 Did Packer Hold yes

Drilling Contractor Emphasis

Length Drill Pipe 3281 I.D. Drill Pipe 3.80 Tool Joint Size Hex

Length Weight Pipe none I.D. Weight Pipe none Tool Joint Size none

Length Drill Collars none I.D. Drill Collars none Tool Joint Size none

Tool Open I.F.P. from 345 Am to 415 Am 30 min

Tool Closed I.C.I.P. from 415 Am to 445 Am 30 min

Tool Open F.F.P. from 445 Am to 515 Am 30 min

Tool Closed F.C.I.P. from 515 Am to 545 Am 30 min

from [B]	<u>52</u>	P.S.I. to [C]	<u>52</u>	P.S.I.
[D]	<u>52</u>			P.S.I.
from [E]	<u>52</u>	P.S.I. to [F]	<u>63</u>	P.S.I.
[G]	<u>63</u>			P.S.I.

Initial Hydrostatic Pressure [A] 1801 P.S.I. Final Hydrostatic Pressure [H] 1870 P.S.I. Maximum Temp 108 °F

Initial Blow Weak Blow 1/2" into water Died 14" Flush Tool went off top of water Died 2"

Final Blow NO BLOW FLUSH TOOL NO HOLD

Gas to Surface None Min. Oil to Surface None Min. Mut Weight 9.8 Viscosity 37

Gas Gauged _____

Recovery 15' Drilling mud

Remarks _____

Extra Equipment-Jars None Safety Joint None Extra Packer None Straddle None Hook Wall None

Top Recorder No. 13561 Clock no. 13056 Depth 3332 Clr. Sub None Sampler None

Bottom Recorder No. 13379 Clock No. 27441 Depth 3335 Chlorides - ppts 67000 D.S.T. None

Price of Job _____

Tool Operator [Signature]

Approved By _____

SUPERIOR TESTERS, INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND TO THE PROPERTY OR PERSONS OF THE ONE FOR WHOM A TEST IS MADE, OF FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Ticket No 8665 STATE CORPORATION COMMISSION
DEC 17 1986