

STATE OF KANSAS
STATE CORPORATION COMMISSION
200 Colorado Derby Building
Wichita, Kansas 67202

WELL PLUGGING RECORD
K.A.R.-82-3-117

API NUMBER 15-171-20,123-0000

LEASE NAME McKean

WELL NUMBER 1

SPOT LOCATION C SE

SEC. 19 TWP. 18 RGE. 31 ~~XXX~~ (W)

COUNTY Scott

Date Well Completed _____

Plugging Commenced 4-27-87

Plugging Completed 4-29-87

LEASE OPERATOR Methanol Production Corp.

ADDRESS 165 S. Union, Ste. 500, Lakewood, CO 80228

PHONE # (303) 980-1277 OPERATORS LICENSE NO. 4311

Character of Well Gas
(Oil, Gas, D&A, SWD, Input, Water Supply Well)

Did you notify the KCC/KDHE Joint District Office prior to plugging this well? yes

Which KCC/KDHE Joint Office did you notify? Dodge City, Ks.

Is ACO-1 filed? yes If not, is well log attached? _____

Producing formation Krider Depth to top 2782' bottom 2790' T.D. 2940'

Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

Formation	Content	From	To	Size	Put in	Pulled out
Surface				8 5/8"	360'	0'
Production				4 1/2"	2940'	1451

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used state, the character of same and depth placed, from feet to feet each set. Pump 2 sks. hulls and 20 sks. cement to bottom - pressure to 750'

Pump 50 sks. cement 1450' to 1300' - Displace w/mud to 390'

Pump 50 sks. cement 390' to 230' - Displace w/mud to 40'

Put bridge and 10 sks. cement 40' to 0'

Cut off 8 5/8", 3' below ground level

(If additional description is necessary, use BACK of this form.)

Name of Plugging Contractor Midwest Casing Pulling Service

License No. 6497

Address Box F, Sublette, Ks. 67877

STATE OF KANSAS

COUNTY OF HASKELL, ss.

I, Edgar J. Eves

(~~employee or operator~~) or

(operator) of above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements and matters herein contained and the log of the above-described well and the same are true and correct, so help me God.

(Signature) Edgar J. Eves

(Address) Box F, Sublette, KS. 67877

Box F, Sublette, KS. 67877



SUBSCRIBED AND SWORN TO before me this 1st day of May, 1987

Sondra L. Eves
Notary Public

My Commission expires: 12-6-88

KANSAS DRILLERS LOG

S. 19 T. 18 R. 31 W

API No. 15 — 171 — 20,123-0000
County Number

Loc. C SE 1/4

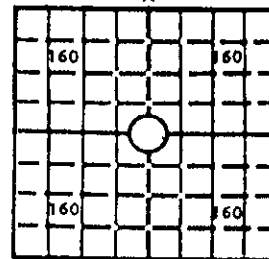
Operator
 Car-Ren, Inc.

County Scott

Address
 645 R. H. Garvey Bldg., Wichita, Kansas 67202

640 Acres
 N'

Well No. # 1-19
 Lease Name McKean



Footage Location
 1320 feet from (N) (S) line 1320 feet from (E) (W) line

Principal Contractor B & N Drilling Company
 Geologist Walt Scott

Spud Date 11/29/76
 Total Depth 2940' P.B.T.D. 2925'

Elev.: Gr. 2967

Date Completed March 25, 1977
 Oil Purchaser

DF _____ KB 2973

CASING RECORD

Report of all strings set — surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives
Surface	12 1/2"	8 5/8"	24#	360'	class H	275	3% CC 1/2# floseed p/sx
Production	7 7/8"	4 1/2"	9.5#	2940'	50-50 posmix	175	10% salt 3/4 of 1% CFR2

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			2	Jets	2782' - 2790'

TUBING RECORD

Size	Setting depth	Packer set at
2 3/8" OO	2816	

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
1,000 gal 15% MCA	2782-2790

INITIAL PRODUCTION

Date of first production March 25, 1977		Producing method (flowing, pumping, gas lift, etc.) Pumping			
RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio	CFPB
		30	61		
Disposition of gas (vented, used on lease or sold) Vented on test (shut-in gas well)			Producing interval(s) 2782-2790		

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, State Corporation Commission, 3830 So. Meridian (P.O. Box 17027), Wichita, Kansas 66217. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Drillers Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

Rec'd
 5-11-87

Operator
Car-Ren, Inc.

DESIGNATE TYPE OF COMP.: OIL, GAS,
DRY HOLE, SWDW, ETC.:

Well No.
1-19

Lease Name
McKean

Gas

S 19 T 18 R 31 X
W

WELL LOG

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN,
OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
clay/sand	0	1800	Stone Corral	+727
shale/lime	1800	2777	Base S. Corral	+665
Krider	2777	2817	Herington	+221
Winfield	2817	2855	Erosional Krider	+196
Towanda	2855	2940	Krider	+191
No DST			Winfield	+144
Core Intervals:			Towanda	+ 85
Winfield	2830'	2855'	Fort Riley	+ 44
Towanda	2888'	2918'	L.T.D.	+ 33
			R.T.D.	+ 33

USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.

Date Received

James M. Stewart
James M. Stewart Signature

Vice-President

Title

April 18, 1977

Date

Rev'D
5-1-87

HIGGINBOTTOM ENGINEERING, INCORPORATED

P. O. BOX 6
LIBERAL, KANSAS 67901

316-624-3767

PETROLEUM ENGINEERING
PROPERTY MANAGEMENT

DRILLING & COMPLETIONS
WELL WORKOVERS

CHRONOLOGICAL OPERATIONS

- CAR-REN, Inc.
McKean #1-19
C SE/4; Section 19-18S-31W
Scott County, Kansas
- Elevation: 2967 GL - 2973' KB (All measurements are KB)
- November 22, 1976 B&N Drilling, Inc. moved in rotary. Spud 5:15 PM 11/21/76. Drilled 12-1/4" hole to 360'. Ran 9 jts. 8-5/8" 28# used casing (total tally 345.50'); set @ 351'. Cemented w/ 350 sx Class "H" cement w/ 3% CaCl and 2% gel. Cement circulated to surface. Plug down 2:00 AM 11/22/76. WOC.
- November 23-29, 1976 SD; Thanksgiving Holiday
- November 30, 1976 Drilling 7-7/8" hole @ 1791'.
- December 1, 1976 2547' - on trip.
- December 2, 1976 Coring @ 2772'.
- December 3, 1976 Coring @ 2781'.
- December 4, 1976 Coring @ 2820'.
- December 5, 1976 No report.
- December 6, 1976 Drilling @ 2918'.
- December 7, 1976 2940' TD - WOC.
Drilled to 2940'; ran open hole logs. Ran 70 jts. 4 1/2" 9.5# ERW ST&C casing (total tally 2951.44'); set at 2939'. Cemented with 175 sx 50/50 Pozmix w/ 10% salt and 3/4 of 1% CFR-2. Good circulation; plug down 3:55 AM 12/7/76. WOC.
- December 8, 1976 Moved out rotary - wait on completion rig.
- January 6, 1977 Patrick Well Service moved in rig. Hauled in 2-3/8" tubing. Started running 2-3/8" tubing to swab casing down.

RECEIVED
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MAY 16 1986
5-16-86
CONSERVATION DIVISION
WICHITA, KANSAS

January 7, 1977 Swabbed casing down to 2350' - pulled tubing - ran correlation log - perforated Krider 2782' to 2790' w/ 16 holes. Ran tubing to 2796' - swabbed casing dry w/ show gas.

January 8, 1977 Acidized w/ 1000 gal. 15% MCA; flushed casing w/ treated water - spotted acid via tubing in annulus above and opposite perms. Broke down formation @ 650#; displaced acid into formation w/ trtd. water. Max. trtg. press. 650#; avg. trtg. press. 325#; ISIP 150# - to vac in 5 min. AIR 4 EPM w/ 58 BLTR. Swabbed tubing - recovered 56 BLW - well drying up w/ show gas - CP inc. to 60#. 2 BLTR.

January 9, 1977 100# CP @ 8 AM 1/8/77 - fluid level 1800' from surface - swabbed tubing 1 1/2 hrs. - recovered 28 bbl. water - swabbing from 200' off bottom - SD rig due to extreme cold and blowing snow.

January 10, 1977 SD; Sunday

January 11, 1977 CP 110# @ 8 AM 1/10/77; fluid level @ 1800' from surface - swabbed tubing 9 hrs - recovered 63 bbl. water - unable to get gas ahead of swab to burn; Cl 80,000 ppm - blew casing down - built back up to 110# by evening. Cannot swab dry; approx. 150' fluid in hole @ all times.

January 12, 1977 CP 150# @ 8 AM 1/11/77 - fluid level @ 1800' from surface. Ran swab - gas burned most of way out on first pull - swabbed 9 hrs. - recovered 54 BLW - after bleeding casing down - casing press. built up to 110# during day - Cl 80,000 ppm - gas burn ahead of swab on each pull.

January 13, 1977 CP 155# @ 8 AM 1/12/77; fluid level @ 1800' from surface - swabbed tubing for 55 bbl. water. Gas ahead of swab and short blow behind swab - lost swab - pulling tubing to recover swab.

January 14, 1977 Finished pulling tubing - recovered swab. Ran 88 jts. 2-3/8" EUE 8R Thd. tubing (total tally 2801.69') w/ SN and mud anchor (10.40') - TLS 2813.19; set at 2816' - SN @ 2805'. Ran 2 x 1 1/2 x 12' RWBC pump, 112 - 5/8" x 25' rods (new), 1 1/4" x 16' polished rod w/ 1 1/2" liner. Ready to pump. Rig down.

3-15-77 *Completed pump test -- no gas venting*

3-17-77 *Pumped 82 BSW/24 hrs, no gas*

3-21-77 *Pumped 145 BSW / 48 hrs, no gas*

3-24-77 *Pumped 167 BSW / 72 hrs, no gas*

3-25-77 *" 65 BSW / 25 hrs, 8 MCRD, 110 psi sp. press*

3-29-77 *" 244 BSW / 4 days*

*Rec'D
5-16-86*

CAR-REN

Route 645 • R. H. Garvey Building
300 West Douglas
Wichita, Kansas 67202
316/264-5306

McKean #1-19
C SE/4 19-18S-31W
Scott County, Kansas

B & N Drilling Co.
James F. Dilts,
Charles R. King - Geologists.

Elev. 2967 GL.
2973 RB.

- 11-21-76 MIRT. Spud 5:15 p.m. Drilled 12½" hole to 360', ran 9 joints 8 5/8", 28# used casing. Total tally 345.50 set at 351', cemented with 350 sx Class H cement, 3% CaCl, 2% gel. Cement circulated to surface. PD 2 a.m. 11-22.
- 11-23-76 SD for Thanksgiving. Will start up next Monday.
- 11-30-76 Drilling below 1860'. On trip for new bit.
Drilling at 2547.
- 12-2-76 Coring at 2772'.
Sample tops:
Base Stone Corral 2305 (+668)
Herington 2752 (+221)
- 12-3-76 Core #1 2772-2783
Krider 2775 (-198) (Flat with LTL #1-20)
2772-2775 Shale - light to dark gray and brown mottled, finely micaceous with pebble and cobble size anhydrite modules - dolomitic in part.
2775-2779 Dolomite - light to dark gray with lighter gray patches at top of interval grading downwards into finely sandy, sucrosic dolomite with dense, cryptocrystalline streaks. Considerable shale from 2778 - 2779 containing medium to coarse grained quartz fragments. Fossiliferous - greenish tint when wet.
2779-2780 Dolomite - as above. Grading rapidly downward into dolomite-buff sucrosic to fine crystalline, hard, lightly fossiliferous with gastropods replaced by calcite - excellent calcite crystals at 2780-81 (58 min/ft.).
2781-2782 Dolomite - white to buff, sucrosic to fine crystalline and very finely sandy with transparent dolomite rhombs - trace biotite - non fossiliferous.
2782-2782.6 Dolomite - white to buff as above - no visible gas show no good visual porosity. Pulled core to check for jamming and bit damage.
Circulating at 2783 preparing to start Core #2.
- 12-5-76 Coring
- 12-6-76 Drilling at 2918.
2940' TD. Drilling to 2940', ran open hole logs. Ran 70 joints 4½" 9.5# casing. Total tally 2951.44 set at 2939' with 175/sx 50-50 poz-mix, 10% salt, 3/4% CRF-2. Good circulation. PD at 3:55 a.m. WOC

RECEIVED
STATE CORPORATION COMMISSION

MAY 16 1986
5-16-86
CONSERVATION DIVISION
Wichita, Kansas

McKean #1-19
C SE $\frac{1}{4}$ 19-18S-31W
Scott County, Kansas

B & N Drilling Co.
James F. Dilts,
Charles R. King - Geologists

Page 2

- 12-6-76 Core #2 (2783 - 2817. Cut 34', recovered 32.6')
- 2783 - 2795 Dolomite, white to light grey, sucrosic to very fine crystalline, sandy, biotitic, no visible porosity.
 - 2795 - 2797 Dolomite, white to light grey with dark inclusions. Sucrosic to very fine crystalline, sandy, irregular pebble to cobble size masses of anhydrite, poor fine to medium vugular porosity. Top 1/2' water saturated.
 - 2797 - 2803.5 Dolomite, medium grey with dark inclusions. Sucrosic to finely crystalline with dark grey shale partings and irregular pebble to cobble size masses anhydrite.
 - 2803.5 - 2804.5 Shale, dark grey to black, massive, hard, micaceous.
 - 2804.5 - 2814.8 Siltstone, medium grey grading downward into shale, brown, massive, hard, dolomitic.
 - 2814.8 - 2815.6 Anhydrite, mottled white and medium grey, cryptocrystalline, hard.
- Core #3 (2830 - 2855. Cut 25', recovered 24.6')
- 2830 - 2831.7 Shale, light brown to medium grey, massive, hard, calcareous
 - 2831.7 - 2833.4 Dolomite, light brown cryptocrystalline, dense with pebble to cobble masses of anhydrite, light to medium grey. Sucrosic, very finely crystalline.
 - 2833.4 - 2837.5 Shale, medium grey, massive, hard, dolomitic with irregular cobble masses of anhydrite.
 - 2837.5 - 2842 Dolomite, light to medium grey, cryptocrystalline with inclusions and partings shale, grey, becoming more abundant in bottom 2'.
 - 2842 - 2843.7 Dolomite as above but with irregular cobble masses of anhydrite.
 - 2843.7 - 2844.25 Shale, medium to dark grey, silty, massive, hard with cobble masses of anhydrite.
 - 2844.25-2849.7 Dolomitic sandstone, light grey, very fine, well sorted, hard, tight.
 - 2849.7 - 2854.6 Shale and siltstone, brown to brown-grey, massive, hard with pebble masses anhydrite in the bottom foot.
- Core #4 (2888 - 2918. Cut 30', recovered 29.4)
- 2888 - 2895.5 Limestone, white to very light tan, cryptocrystalline to sucrosic, hard, dense, dolomitic, with irregular partings of shale (1 shale ptg. .7" thick) becoming darker and more dolomitic with depth.
 - 2895.5 - 2903 Dolomite, white to light grey, sucrosic to very fine crystalline, sandy with poor, medium vuggy porosity in the top foot and fair intergranular porosity.

Rec'D

S-116-86

McKean #1-19
C SE $\frac{1}{4}$ 19-18S-31W
Scott County, Kansas

B & N Drilling Co.
James F. Dilts,
Charles R. King - Geologists

Page 3

12-6-76 Core #4 (Cont'd)

- 2903 - 2906.7 Dolomite, medium grey, cryptocrystalline to sucrosic, very sandy, very micaceous partings of shale, pebble to cobble masses of anhydrite.
- 2906.7 - 2910 Dolomite, white to light grey, sucrosic, very fine sandy, hard, dense, abundant irregular shale partings.
- 2910 - 2911.7 Shale, medium to dark grey, dolomitic, massive, hard.
- 2911.7-2914.3 Limestone, light to medium grey with shale inclusions, sucrosic, sandy, dolomitic with abundant partings and laminae of shale in the bottom foot.
- 2914.3-2917.4 Shale, medium to dark grey, massive, hard, tight, dolomitic with abundant shale partings and laminae.

LOG TOPS:

Stone Corral	2246 (+727)
Base Stone Corral	2308 (+665)
Herington	2752 (+221)
Erosional Krider	2777 (+196)
Krider	2782 (+191)
Winfield	2829 (+144)
Towanda	2888 (+ 85)
Fort Riley	2929 (+ 44)
L.T.D.	2940 (+ 33)
R.T.D.	2940 (+ 33)

- 1-5-77 Moved in Rig. Moved in 2 3/8" tubing. Started running tubing to swab casing down.
- 1-7-77 Acidized with 1,000 gal 15% MCA. Maximum treating pressure: 650#; Average 325#; initial shut in: 150# to vacuum in 5 minutes. Average rate, 4 BPM. 50 BL to recover. Swabbed tubing, recovered 56 BLW. Well drying up with a show of gas. Casing pressure increased to 60#. 2 BL to recover.
- 1-8-77 100# casing pressure at 8:00 a.m. Fluid level 1800' from surface. Swabbed tubing 1 1/2 hours, recovered 28 BW. Swabbed from 200' off bottom. Shut down rig due to extreme cold and blowing snow.
- 1-9-77 SD Sunday.
- 1-10-77 Casing pressure 110# at 8:00 a.m. Fluid level 1800' from surface. Swabbed 9 hours through tubing for 63 BW. Unable to get gas ahead of swab to burn. Chlorides, 81,000 ppm. Blew casing down, built back to 110# by evening. Swabbing from 150' off bottom, unable to swab lower.
- 1-11-77 Casing pressure 150# at 8:00 a.m. Fluid level 1800' from surface. Ran swab, had good gas burn most of way out on first pull. Swabbed 9 hours, recovered 54 BLW. Bled casing down. Casing pressure built back to 110# during day. Chlorides 80,000 ppm. Got gas burn on each pull of the swab.
- 1-12-77 Casing pressure 155#. Fluid level at 1800'. Swabbed through tubing, show of gas ahead of swab and short blow behind swab. Lost swab in hole. Pulling tubing to recover swab.
- 1-13-77 Finished pulling tubing, recovered swab. Ran tubing back, ran rods and pump. Preparing to move out.

Rec'D

5-11-86

TO BE FILED WITH THE STATE CORPORATION COMMISSION
PRIOR TO COMMENCEMENT OF WELL

API Number 15-71-20-123
(For office use only)

- 1. Operator CAR-REN, Inc.
Suite 645 - 300 W. Douglas
Address Wichita, Kansas 67202
- 2. Contractor B&N Drilling Co.
Box 846
Address Independence, Kansas 67301
- 3. Type of Equipment: Rotary Cable Tool _____
- 4. Well to be Drilled for: Oil _____ Gas
Disposal _____ Input _____ Other _____
- 5. Depth of Deepest Fresh Water within 1 mile _____ 80 ft.
- 6. Depth of Municipal Water Well within 3 miles _____ None ft.
- 7. Depth to Protect all Fresh Water _____ 100 ft.
- 8. Amount of Surface Casing to be set _____ 300 ft.
- 9. Alternate No. 1 _____ No. 2 _____

Starting Date Approximately 11-1-76

County Scott

Sec. 19 Twp. 18 S Rge 31W E W

Spot Location C SE 1/4

Nearest Lease Line _____ 1320 ft.

Lease Name McKean

Well No. A-10

Est. Total Depth _____ 2800 ft.

REMARKS:

OPERATOR STATES THAT HE WILL COMPLY WITH K. S. A. 55-128

Signature of Operator [Signature]

MAILED
OCT 28 1976
10-28-76
REGISTRATION DIVISION
WICHITA, KANSAS



**Methanol
Production
Corporation**

165 South Union
Suite 500
Lakewood
Colorado 80228
(303) 980-1277

May 14, 1986

State Corporation Commission
Conservation Division
200 Colorado Derby Building
Wichita, Kansas 67202

SUBJECT: Well Plugging Application - Scott County
Gas Well - McKean #1, S19, T18S, R31W
(API No. 15-171-20123)


Gentlemen:

Enclosed is KCC Form CP-1 which has been completed to initiate plugging the above-referenced well. We were unable to locate completion reports (KCC Form ACO-1) in our files for this well, but have enclosed various drilling and completion records that were available.

We await additional instructions and guidance from you before preparing a proposed plugging plan and/or selecting a plugging contractor.

Sincerely,

METHANOL PRODUCTION CORPORATION


Arthur P. Corrigan,
Vice President

APC/mjg

Enclosures

RECEIVED
STATE CORPORATION COMMISSION

MAY 16 1986
5-16-86
CONSERVATION DIVISION
Wichita, Kansas