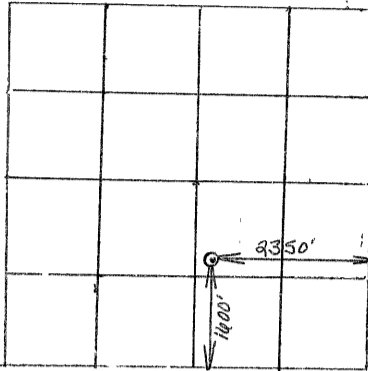


15-163-21381-00-00

WELL PLUGGING RECORD

Give All Information Completely
 Make Required Affidavit

COUNTY Rooks SEC. 32 TWP. 9 RGE. 20 E/W
 Location as in quarters or footage from lines:
SW NW SE 1600' ESL & 2350' FEL



Locate Well
 correctly on above
 Section Platt.

Lease Owner Excel Energy Corporation
 Lease Name Keuhn1 Well No. 1
 Office Address 1800 Glenarm Pl, Ste 1100, Denver CO 80202
 Character of Well (Completed as Oil, Gas or Dry Hole): Dry hole
 Date Well Completed August 7, 1981
 Application for plugging filed _____
 Plugging commenced August 7, 1981
 Plugging completed August 7, 1981
 Reason for abandonment of well or producing formation Lack of oil recovery in DSTs & lack of porosity in Density Porosity log.
 Was permission obtained from the Conservation Division or it's Agent's before plugging was commenced? Yes

Name of Conservation Agent who supervised plugging of this well Marion Schmidt
 Producing formation Arbuckle Depth to top 3842' bottom 4275' T.D. 4359'
 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
				8-5/8"	261'	--
					268 KLL ZAP	

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 hold. If cement or other plugs were used, state the character of same and depth placed, from _____ feet to _____ feet for each plug set.

Plugged with a total of 60 sx regular Portland, 60 sx Pozmix A, 2 sx Halliburton gel @ 2% allowed & 4 sx Halliburton gel @ 4%. Plugs as follows: 60 sx cmt, 224' plug from 950' to 726'; 40 sx cmt, 149' plug from 280' to 131'; 10 sx cmt, 35' solid bridge from 40' to 5'; 5 sx in rathole and 5 sx in mousehole. Left hole full of mud.

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 10/19/81
 OCT 19 1981

(If additional description is necessary, use BACK of this sheet)
 Name of Plugging Contractor Halliburton Services

CONSERVATION DIVISION
 Wichita, Kansas

STATE OF Colorado COUNTY OF Denver, ss.
John G. Cowan (employee of owner) or (~~owner or operator~~) of the 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 as filed and that the same are true and correct. So help me God.

(Signature) [Signature]
1800 Glenarm Pl, Ste 1100, Denver CO
 (Address)

SUBSCRIBED AND SWORN TO before me this 16th day of October, 19 81

My Commission expires: August 14, 1982

W. H. Dolven
 1800 Glenarm Pl. Notary Public.
 Ste. 1100
 Denver, CO 80202

KANSAS

WELL COMPLETION REPORT AND DRILLER'S LOG

S. 32 T. 9 R. 20 E W

API No. 15 - 163 - 21381 - 00-00
County Number

Loc. SW NW SE

County Rooks

Operator
Excel Energy Corporation (303) 573-5555

Address
1800 Glenarm Place, Suite 1100, Denver CO 80202

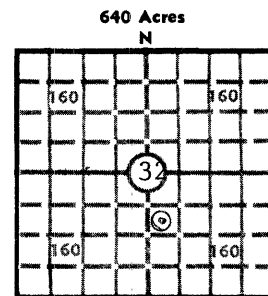
Well No. 1 Lease Name Keuhnl

Footage Location
1600 feet from XX (S) line 2350 feet from (E) (W) line

Principal Contractor C & R Drilling Co. Geologist Robert McDowell, Jr, PE, PG

Spud Date July 23, 1981 Date Completed Aug. 7, 1981 Total Depth 4359' P.B.T.D. --

Directional Deviation None taken Oil and/or Gas Purchaser Not applicable



Elev.: Gr. 2258'

DF KB 2263'

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 1/4"	8-5/8"	24#	268'	Glass "A"	200	3% CaCl, 2% gel

LINER RECORD None

PERFORATION RECORD None

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval

TUBING RECORD None

Size	Setting depth	Packer set at

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
None	

STATE CORPORATION COMMISSION

10/19/81

INITIAL PRODUCTION

CONSERVATION DIVISION
Wichita, Kansas

Date of first production
Dry Hole Producing method (flowing, pumping, gas lift, etc.)

RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio
	bbls.	MCF	bbls.	CFPB

Disposition of gas (vented, used on lease or sold) Producing interval(s)

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, 245 No. Water, Wichita, Kansas 67202. 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.

Operator: Excel Energy Corporation
 DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: Dry hole

Well No. 1 Lease Name Keuhn1

S 32 T 9 R 20 E 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
See attached copy of drilling well log			Morrison	1498'
			Flowerpot	1534'
			Stone Corral	1770'
			Runnymede Silt	1805'
			Ninneska	1822'
			Salt	2140'
			Topeka	3301'
			Wilson Zone	3328'
			Deer Creek	3408'
			Tecumseh	3432'
			Lecompton	3438'
			Oread	3454'
			Heebner	3503'
			Leavenworth	3506'
			Toronto	3524'
			Lansing	3543'
			Base Kansas City	3767'
			Lenapa	3776'
			Altamont	3794'
			Marmaton	3809'
			Arbuckle	3842'
			Regan SS	4275'
			Granite Wash	4305'
			PreCambrian	4324'
DST #1: 4075-4120'. Tool open @ 20:40. Open for 15 min w/strong blow; closed 30 min; open 60 min w/fair blow; closed 95 min. IHP 2171. 1st IF 705; FF 1138; ISI 1209. 2nd IF 1147; FF 1209; FSI 1209. FHP 2126. Rec 434' muddy wtr & 2551' wtr.				
DST #2: 3812-3850'. Tool open @ 07:05. Open 18 min w/fair blow; closed 27 min; open 60 min w/no blow; closed 90 min. IHP 2073. 1st IF 53, FF 53, ISI 53. 2nd IF 53, FF 53, FSI 62. FHP 2081. Rec 85' slightly oil spotted mud (1% oil, 84% wtr, 15% mud)				
DST #3: 3880-3994'. Tool open @ 00:45. Open 15 min w/strong blow; closed 45 min; open 60 min w/no blow incr to strong blow after 25 min; closed 90 min. IHP 2173. 1st IF 827, FF 979, ISI 1142. 2nd IF 970, FF 1096, FSI 1142. FHP 2155. Rec 440' muddy wtr & 1900' wtr.				
DST #4: 3615-3655'. Tool open @ 13:35. Open 15 min w/weak to good blow; closed 30 min; open 60 min w/no blow 3 min, weak to fair blow; closed 60 min. IHP 1973. 1st IF 99, FF 144, ISI 405. 2ns IF 62, FF 189, FSI 441. FHP 1982. Rec 330' muddy wtr.				
DST #5: 3884-3895'. Misrun.				
DST #6: 3884-3895'. Tool open @ 23:05. Open 15 min w/weak blow; closed 30 min; open 60 min w/weak blow & building; closed 90 min. IHP 2237. 1st IF 36, FF 45, ISI 1024. 2nd IF 54, FF 162, FSI 1024. FHP 2146. Rec 300' muddy wtr.				

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

Date Received

[Signature]
 Signature
 Drilling & Production Manager
 Title
 October 8, 1981
 Date

KS-9S-20W-32-10C

DRILLING WELL LOG

Well File

KANSAS
ROOKS
MARCOTTE
EXCEL ENERGY CORP.
No. 1 Excel-Kuehnl

COMPANY EXCEL ENERGY CORPORATION

WELL EXCEL-KUEHNL No. 1

LOCALITY N. MARCOTTE

COUNTY ROOKS STATE KANSAS

SECTION SW NW SE
1600 FSL, 2350 FEL

APPROXIMATE NORTH SOUTH EAST WEST
15-163-21, 381 32 9 South 20 West

GROUND ELEVATION 2258 FEET CG 2263

ABOVE GROUND ELEVATION 2258 FEET CG

2102, 23 July 1981

2145, 1 August 1981

4,359'

4,356

261' of 8-5/8", 20 lb at 268'; PD. at 0630, 24 July 1981

PI SIZE: 12-3/4", 7'-27"
7-7/8", 271'-4,359'

LOGGERS: Robert W. Mc Dowell, Jr.

ENGINEER:

C & R Drilling Co.

FOLD LINE

DRILLING CREW, LOG NUMBER: 1
PUSHER: Ralph C. Dreiling
DRILLER, CREW NUMBER 1: Don Buhrie
CREW NUMBER 2: Jim Mortinger
CREW NUMBER 3: Larry Reddick
CREW NUMBER 4: Leroy Chapman

SAMPLES: DESCRIBED AT DEPTH CATCH SOURCE: Sluice Box QUALITY: Very Good

OIL or GAS SHOW
Scat 0
ss. 0
Dead 0

DEPTH

DRILL STEM TESTS
THROCKY Connected to
Logging Time Depth

DRILLING TIME RECORD
TYPE RECORDER: TOTCO
AUTOMATIC DRILLER?: YES
SCALE: MINUTES PER 1 FOOT

M. GAS LOG
Detector Type
Make
SCALE: API UNITS
20 10 180
20 20 20 40

Connections, Repairs, Crew Changes, Etc
Hole Deviation

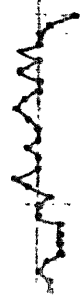
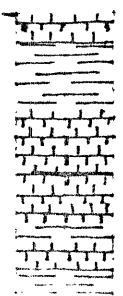
0 2 4 6 8 10 2 4 6 8 10 15 20 30

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B. & No. 2, Loc. 1885, O. R. & 2022, 7-26-81

CONSERVATION DIVISION
Wichita, Kansas

5 foot samples
ls: gy, fcs, th, ns; sh: bk, lam
S
ls: gy, ak, fcs, spl, sh; sh: gy, gum
ls: th, gy, fcs, sh: gy
S
ls: th, gy, fcs, sh: gy

3200



Cann: Tria.

50
Ls: gy, fos, frac; Ls: dhy, dne;
Sh: bk; Dty spl
Ls: gy, Th, f, air; Sh: gy; Dty spl.

Ls: gy, fos, Sh: bk; Dty spl

Se
Se
Se

Ls: Wh, chy; Sh: bk; Fat dty
Dty spl

Se
Se

Se; Ls: gy, dne
No Spl

Ls: F-M nlu, gy, NS; Sh: bk
Ls: Itgy, vgt, fos, NS; Sh: bk

Sh: bk; Ls: Itgy, spl, NS
Se

Se; Dty spl.
Ls: Wh, dne, NS; Sh: bk

Ls: can NS
Ls: En, suc, NS; Dty spl

Se; Fat floor: mud oil?
Ls: Itgy-wh, dne, Fat floor;
Sh: gy; Dty spl

Se
Ls: Wh, dne, frac; Sh: bk;
Fat floor

Se; Dty spl
Se

Ls: gy, dne; Sh: bk, Dty spl; Fat floor

Ls: Itgy, dne, Fat floor
Ls: Itgy, chy, Fat floor

Se
Ls: gy, VF nlu; Ls: dkgy, ool;
Fat floor

Se
Ls: VF nlu, gy, Fat floor: mud oil?

Se
Se
Se
Se
Se
Se
Se
Se

Ls: Itgy-wh, VF nlu, Fat floor

Se
Se

Ls: Wh, dne, chy; Ls: En, VF nlu, frac;
Fat floor (mud oil?)

Se
Se

Se; Ls: sh, sel.
Se, Fat floor

Ls: gy, var, l, v, Th, dne, l, uncom
Se

3500

3600

3700



Handwritten notes and scribbles running vertically down the right side of the page.

Conn: 6 min.

0745; 7-28-81; Crow No. 3
0800; 7-28-81; C₂ ch.

0924; 7-28-81;
Full up to Top. Prop.;
Stack: 0800; 22, 22;
7-28-81; Crow No. 1
Vis: 42; Wt: 10.1; Wt: 10.9

Conn: 5 min.

2345; 7-28-81; Crow No. 8
0000; 7-29-81

Conn: Ch Rig: 17 min.

Conn: 6 min.

Conn: Fat floor: 11 min.
0745; 7-29-81; Crow No. 8
0800; 7-29-81; C₂ ch.

Conn: Ch Rig: 11 min.

Vis: 42; Wt: 10.1; Wt: 10.9

Conn: gy: 10 min

Du: air emp, chl. Rpt. 15 min.

Conn: Ch Rig: 10 min
1545; 7-29-81; Crow No. 1

Sc.
 Sc. 3A: M-Crs, loc, rnd.
 Sc. 3A: Crs, rnd, g rld, low.
 Ls: bn, sus; Fl: lg, rnd, g rld, low;
 Ls: bn, ea, Fl: Fl
 Sc.
 Ls: gy, sd, sl, fl, Ls: wh, chg.
 Ls: gy, sd, sl, fl; Del: pnk,
 Ls: gy, sus; Del: pnk, m; sl, fl
 Ls: gy, dur; Ls: gy, sus, od; Ls: pnk;
 Ls: gy, Fl, Ls: wh, chg, sl, fl
 Sc; 3d: gy, F-Crs, Fl, sl, fl
 Cl: 30: Sc
 Co: Sc
 Cuv c
 Sh: rd, bk, gn; Ed: F-M, calc, Fl;
 Sc: Crs, Rnd, rd, low; Ls: Fl, in, sl, Fl
 Sh: wa; Ls: gy, Fl, m; sl, fl
 Sc; 3d: M, sub rd, qz, p, Fl; sl, fl
 Sc
 Sh: rd, gn, bk, ea; Ls: wh, chg, sl, fl; Ls:
 M-Crs, Vn, Fl, fl
 Ls: Fl, gn, Mn, pet, Fl, fl
 Ls: gy, F-M, sd, vng, sl, fl
 Ls: tn, Sw - Fl, Frac, sl, fl, odr
 Sh: rd, gn, bk; Ls: wh, chg, NS
 Sc, bec sd, vng, no odr
 Sc, les sd
 Ls: F-M, Frac, Vn, sl, fl;
 Sh: rd, bk, gn, ea
 Sc
 Ls: wa; Ls: gy, dur, sl; shian
 Sc
 Sc; Del: M, rd, stn
 Ls: gy, Fl, (app sd) var sl, app ut,
 Fl
 Ls: gy, sus, var sl, app ut, Fl
 Sc
 Sc
 Sc
 Sc, app sd
 Sc
 Sc
 Sc
 Sc
 Ls: tn, sd, gn, scot sl, fl; Cn;
 Sgt, sol
 Sc, mon sl
 Sc, mon sd
 Sc
 Sc
 Sc
 Sc
 Sc
 Sc
 Sc, les sl, app ut
 Sc, les fl
 Sc
 Sc
 Sc
 Sc
 Sc, mon sl
 Ls: gy, V-F, sd, v, fl; Ls: pnk,
 ed, bk, vng, no sl

4000

4100

4200

