

KANSAS DRILLERS LOG

IMPORTANT
Kans. Geo. Survey request
samples on this well.

API No. 15 — 055 — 20,393 ✓
County Number

Operator
Helmerich & Payne, Inc.

Address
P. O. Box 558 Garden City, Kansas

Well No. #1-33 Lease Name Powell

Footage Location
660 feet from (N) line 1980 feet from (W) line

Principal Contractor Service Drilling - Rig 2 Geologist Larry Stephenson

Spud Date 11-27-79 Total Depth 4865 P.B.T.D. 4736

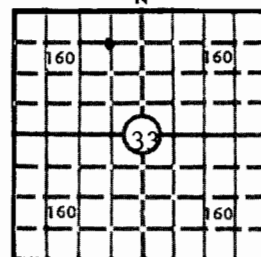
Date Completed 3-27-80 Oil Purchaser Hurricane - Permian

S.33 T.22 R.27 E W

Loc. C NE NW

County Finney

640 Acres
N



Locate well correctly

Elev.: Gr. 2614
2619 2622
DF KB

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	23#	773 KBM	65/35 Poz. Class H	300 100	6% gel, 2% CaCl ₂ , 1#/sk 3% CaCl ₂ cellorflake
							(Cir 150 sks to Pit)
Production	7 7/8	5 1/2	14#	4767	50/50 Poz	275	2% gel, 10% salt Cmt Top @ 3350'

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
None			2	1/2" Omega Jet	4592-4594
TUBING RECORD			2	1/2" Omega Jet	4580-4588
Size	Setting depth	Packer set at	2	1/2" Omega Jet	4574-4576
2 3/8	4574	None			

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
250 gals. 15% HCl - Squeeze with 50 sks Class H cmt.	4592-4594
250 gals. 15% HCl and 750 gals. 7 1/2% HCl	4580-4588 and
	4574-4576

INITIAL PRODUCTION

Date of first production 1-17-80	Producing method (flowing, pumping, gas lift, etc.) Pumping			
RATE OF PRODUCTION PER 24 HOURS	Oil 7 bbls.	Gas 0 MCF	Water Trace bbls.	Gas-oil ratio TSTM CFPB
Disposition of gas (vented, used on lease or sold) No measurable gas			Producing interval(s) 4574-4576 & 4580-4588	

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.

Operator Helmerich & Payne, Inc.		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:	
Well No. 1-33	Lease Name Powell	Oil	
S <u>33</u> T <u>22</u> SR <u>27</u> ^{EX} W			
WELL LOG		SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.	
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.			
FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME
DEPTH			
Lansing-Limestone & shale. Appear to be tight and/or wet, no show.	3934	4220	Base Stone Corral
Kansas City-Limestone, no porosity, no show.	4232	4530	Winfield
			Waubaunsee
Marmaton-Limestone, no porosity, no show.	4367	4484	Topeka
			Heebner
Cherokee-Limestone, dolomite w/ chert. Good porosity in bottom section, Show of oil.	4486	4596	Toronto
			Lansing
Pre-Penn Unc.-Limestone & dolomite good porosity, wet. No show.	4596	4791	Kansas City "A"
			Marmaton
Gilmore City-Dolomite & chert Some porosity, no show.	4791	4825	Cherokee
			Chert Cong.
Viola-Chert & limestone. Tight with no show.	4833	4865	Pre-Penn Unc.
			Gilmore City
			LTD
			RTD
			Ran the following logs:
			CNL
			FDC
			DI
			SFL
			Sonic Log
See attached sheet for Drill Stem Tests. No cores taken.			
USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.			
Date Received	 Signature District Production Superintendent Title April 29, 1980 Date		

PV

33-22-27w

Powell #1-33

DRILL STEM TESTS

DST #1

Kansas City 4314' - 4342'
30 min IFP 29 psi to 32 psi
60 min ISIP 1251 psi
60 min FFP 36 psi to 19 psi
120 min FSIP 901 psi
IHP 2110 psi FHP 2126 psi
Recovery: 40' mud

DST #2

Basal Cherokee & Pre-Penn Unconformity 4564' - 4622'
30 min IFP 416 psi to 465 psi
60 min ISIP 1258 psi
60 min FFP 426 psi to 590 psi
120 min FSIP 1228 psi
IHP - 2107 FHP - 2175
Recovery: 2' free oil
250' heavy oil cut mud
680' oil & gas cut water
180' gas cut water

DST #3

Misrun

DST #4

Misrun

DST #5

Cherokee Conglomerate 4565 - 4597
30 min IFP 99 psi to 99 psi
60 min ISIP 1316 psi
90 min FFP 111 psi to 173 psi
120 min FSIP 1316 psi
Recovery: 620' gas
220' free oil
120' oil and mud cut salt water

DST #6

Misrun

DST #7

Lower Lansing 4160 - 4205
30 min IFP 77 psi-153 psi
100 min ISIP 1223- psi
90 min FFP 153 psi-281 psi
120 FSIP 1223 psi
IHP - 2169 FHP - 2041