15-165-19014-0000

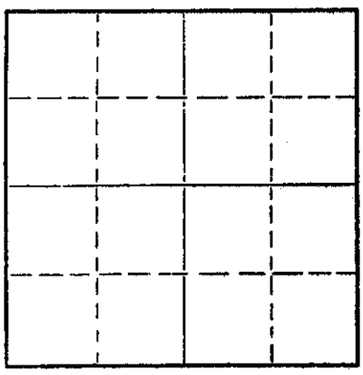
STATE OF KANSAS
STATE CORPORATION COMMISSION

Form CP-4

Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
212 No. Market
Wichita, Kansas

WELL PLUGGING RECORD

NORTH



Locate well correctly on above Section Plat

Rush County. Sec. 9 Twp. 17S Rge. 17 (E) ___ (W) X

Location as "NE/CNW¼SW¼" or footage from lines NE/4

Lease Owner Mobil Oil Company

Lease Name Grumbein Well No. 1

Office Address P. O. Box 1070 Great Bend, Kansas

Character of Well (completed as Oil, Gas or Dry Hole) ___

Date well completed ___ 19___

Application for plugging filed 10-23-68 19___

Application for plugging approved 10-24-68 19___

Plugging commenced 12-29-68 19___

Plugging completed 1-8-69 19___

Reason for abandonment of well or producing formation ___

If a producing well is abandoned, date of last production ___ 19___

Was permission obtained from the Conservation Division or its agents before plugging was commenced? Yes

Name of Conservation Agent who supervised plugging of this well Leo F. Ramsey

Producing formation ___ Depth to top ___ Bottom ___ Total Depth of Well 3620 Feet

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	220	None
				5 1/2	3618	None

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 for each plug set.

Cleaned out cellar. Loaded hole with water.

Cut off 8 5/8 and 5 1/2 casing. Welded on 5 1/2 collar.

Pumped 5 sacks of hull and 10 sacks of cement - 30 sacks of mud and 75 sacks of cement.

RECEIVED
STATE CORPORATION COMMISSION
JAN 15 1969
CONSERVATION DIVISION
Wichita, Kansas

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

Name of Plugging Contractor Forbes Casing Pulling, Inc.

Address P. O. Box 221 Great Bend, Kansas

STATE OF Kansas, COUNTY OF Barton, ss.

J. O. Forbes (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) J. O. Forbes

P. O. Box 221 Great Bend, Kansas
(Address)

SUBSCRIBED AND SWORN TO before me this 14 day of January, 19 69

Notary Public.

My commission expires May 27, 1969

15-165-19014-0000

FORM 1667

NORTHERN NATURAL GAS PRODUCING CO.

WELL LOG

well log sent to ...

Lease Name GRUMBEIN Well No. 1

County Rush State Kansas Field Reichel

Operator Northern Natural Gas Producing Company N.N.G.P.Co. Ownership Interest 100

Partners & partners' interest

Lease Description Section 9-17S-17W

Well Location 130' FSL & 990' FEL NE/4

Rotary Drilling Contractor Red Tiger Drilling Company Wichita Price per foot $2.65

Drilling in contractor Bill Hay Drilling Company Great Bend Rate per day $150

Rotary commenced 1/14/62 5:30 PM Rotary completed 1/27/62 12:45 PM

Drilling in commenced 2/14/62 Drilling in completed 3/1/62

Elevation: Derrick floor 2077 kelly bushing 2080 ground 2075

Zero point K.B. Zero point (feet above ~~mean sea level~~) 2" B.P. in Bradenhead 7.25'

Electric logs (type & interval logged) GR - LL, Sonic & Caliper, Fracture Log (CBL), Cmt. Bond, & GR-CCL

Completion Date 3/1/62 T.D. 3620 PBTD 3602 1/2

Type of well GAS Initial potential

PERFORATING & TREATING RECORD:

DATE	INTERVAL	PERF.-TYPE & NO. PER FOOT	TREATMENT - TYPE & AMOUNT	SERVICE CO.
2/16/62	3594 - 98	2 JSPF (3 5/3" cap)		Schlumberger
2/17/62	" "		Acid 500 N.E. Pent.	HOWCO
2/18/62	" "		Acid 2000-15% N.E.Retarded	"
2/20/62	3073, 3077, 3090	One Jet shot each		Schlumberger
2/20/62	" " "		Acid 1500 N.E. Pent.	HOWCO
2/20/62	3071-78 & 3088-93	2 Crack JPF		Schlumberger
2/20/62	" "		Acid 6000 N.E. 15% retarded	HOWCO

CASING RECORD - SURFACE & INTERMEDIATE

SIZE	WT. PER FOOT	GRADE	RANGE	T & C	NO. OF JTS.	FOOTAGE	SET AT	HOLE SIZE	TYPE & AMT. OF CEMENT
8 5/8	24? (used)		1		10	213.	220'	12 1/4	Posmix 1 225 ft.3
Used centrallizer on bottom collar & welded both sides of 3 bottom collars									

Cementing Co. HOWCO. Additives 2% CaCl

CASING RECORD - PRODUCTION STRING

SIZE	WT. PER FOOT	GRADE	RANGE	T & C	NO. OF JTS.	FOOTAGE	SET AT	HOLE SIZE	TYPE & AMT. OF CEMENT
5 1/2"	15 1/2	J-55				3613	3618	7 7/8	Posmix 1 175 sx.
DV. Tool @ 1206'									Posmix 1 300 sx.
									Circ. 10 sx.

Centralizers: No. used 9 Where placed 3602, 3570, 3099, 3067, 2118, 1178, 891, 580, 199'

Type Used B & W Remarks

B & W. cable scratchers Metal Pedal Basket below D.V. tool

Scratchers: No. Used 34 Spacing 2' & 4' Intervals covered 3586-602 & 3062 - 3104

Reciprocation: Length 6' Time 1 hr. 25 min. Remarks

Top of cmt. - 2580'

Pumping Time Slurry Weight 12.8 to 15.1 at end WOC Time 24 hrs.

Float Shoe at Float Collar at 3612 Guide shoe at 3618

Cementing Co. HOWCO Additives 25# Gilsonite & 18# salt/sack

CEMENT SQUEEZING RECORD

DATE	PERFORATIONS SQUEEZED	SACKS OF CEMENT MIXED	SACKS OF CEMENT BACKWASHED	B.D.P.	FINAL SQUEEZE PRESSURE	PUMPING TIME	TYPE OF CEMENT

CORING RECORD

DATE	INTERVAL CORED	TYPE OF COREHEAD	RECOVERY	CORE DESCRIPTION-
(NONE)				

DRILL STEM TEST RECORD

	DATE	INTERVAL TESTED	I.S.I.P.	I.F.P.	F.F.P.	F.S.I.P.	RECOVERY-
1.	1-20-62	3050-75	990	35	55	955	to 20" to 90" WK to good blow GTS 20"
		~~(Topeka)~~	~~(52")~~			~~(45")~~	TSTM 60' Gas cut drilling mud
2.	1-22-62	3348-60	550	20	30	690	To 22" to 61 Fair blow thru out TST
		~~(Lansing)~~	~~(46")~~			~~(45")~~	10' mud
3.	1-23-62	3360-77	410	30	38	445	to 20" to 60" Fair blow immed. & thruout
		~~(Lansing A)~~	~~(50")~~			~~(45")~~	50' mud
4.	1-24-62	3405-40	1030	120	325	1075	To 21" to 59" Good blow thruout
		~~(Lansing B)~~	~~(45")~~			~~(59")~~	450' Muddy salt water
5.	1-25-62	3570-605	1125	80		1065	to 3" to 70" strong blow imm. GTS 3"
		~~(Granite Wash)~~	~~(120")~~			~~(52")~~	Gauged 1020 MCF in 5" decreasing to 500MCF in70

COMPLETION PROCEDURE: Drill D.V. Tool, CO to 3602 1/2, Log , Perf. Granite Wash 3594-98 per E Log, 2 JSPF, swb dry, no gas, Acid 500 N.E. Pent., Flush 3750 gal. fresh water, swb down, TSTM, 12 hr. SIP 1000 psi, 15 min blow down 255 MCFD, swb 15 gal. water, Acid with 2000 gal. 15% N.E. Retarded, flush 4000 gal. fresh water, swb down to 1600' & kicked off, gauged 734 MCF after 10 1/2 hrs. stabilized 12 hr. SIP 820 psi. 20 min open flow 1930 MCFD very wet, killed well with fresh water, set Baker Model "N" Drillable CI Bridge Plug at 3116', set 4' Calceal on top B.P., TST B.P. to 3000 psi-OR

Perf Topeka 3073, 3077, and 3090, one jet shot each, Acid 1500 gal. N.E. Pent. flush w/3280 gal. F.W. (AIR 10 BPM) Perf 3071-78 & 3088-93 2 crack JPF, swb down, sli show gas, TSTM, Acid 6000 gal. 15% N.E. retarded, flushed with 3700 gal. F.W., swb down & kicked off, Gauged 1135 MCF after 10 1/2 hrs. killed with F.W. drill B.P., run 3595' 2 3/8" EUE 4.7# J-55 tbg. set at 3601 K.B. w/H.M. (HOWCO) PKR. @ 3123 K.B. swb down to 3000', kicked off, flowed 36 hrs. set PKR, flowed 8 1/2 hrs., SI well, dual completion Topeka thru casing annulus and granite wash thru tubing

PRODUCTION TESTS

DATE	OIL (BBL.)	M.C.F.	G.O.R.	WTR. (BBL.)	HOURS	METHOD	T.P.	C. P.	CHOKE SIZE

Approved D. L. Horton
D. L. Horton

Title District Production Engineer