

JACKSONBURG-STRINGSTON

OCT 28 1980

No. 84 on Map.

70197-3 1200 inot Lasted 1. 30 Georg 1

Cong. 12/01/192

Wat 103

1200

Oil and gas well.

Completed, Dec. 1923.

Kanauha 011 Co.

Orig. prod. 25 bbls.; present, 2 bbls.

Grant District, Wetsel County, W. Va.

Rlevation, 14691+

	Top. Bottom.
Pittsburgh Coal	1240 - 1244
Little Dunkard Sand	1610 - 16147
Big Dunkard Sand	1730
Gas Sand	1820 - 1975
Salt Sand	2033 - 2065
2 Salt Sand (hole full water, 2003*)	2123 - 2183
Little Lime	2450 - 2458
Big Lime	2465 - 2515
Big Injun Sand	2515 - 2715
Berea (Squaw) Sand	2 <b>8</b> 45 - 2965
50-ft. (Berea) Sand	3075 - 3125
G. Stray Sand	3270 - 3285
Gordon Sand (gas. 3295; oil and gas. 3310)	1088 3
))±0. <b>)</b>	3288 - 3337
Total depth	3347

Deepest well in Kan. Oil Co. lease (Mills).

Da	مينادة	Dec	. 23	,		•	19_	8
G;	erat	or's						_
6.4	-17 M	la.	JOHN.	MTII	c	מנ	41 2	

WELL OPERATOR'S REPORT

PORM IV-35

CObverse)

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OF			194	ŀ

. [08-78]						OPERATOR'S OF		API Wel Wo	· <u>-7</u> - 103 - 1200
		<u> </u>	ind, Tr	STUR!	1113 AL	D/OR STIMBLE	TING, OR FHYSI:	AL CHANGE	State County Perm
WELL TYPE: C	)1: YY	/ G:	19 /	7 1.4	audd	Talection	/ Waste Dis		•
							/ waste bis		•
							Buffalo Run		
							zel Qua		ten Dint 7 51
			•		•				· .
							DESIGNATED AGEN		
Address	1						Address	P.O. Box	1327
	<u>Parke</u>	ersbur	q, WV 2	26101	<u>-1327</u>	<del></del>	·	Parkersbu	rg, WV 26101-1327
PERMITTED WOR	RK: Dr:	111	/ Cor	vert	,	' Drill deen	ner / Redina	/ Wms.a.	iure or stimulate XX
							ate new formation		MI - CP STIMERICE XX
									3 1/2" and cemented
•	•	<b>,</b>				( ) pcc		o, ro una ran	3 1/2 and cementeed
••			• •						
•	1					81	OIL & GAS INSP		
(IF APPLICAB CONTINU	OUS PRO	GRESSI	ON FROM	DRIL	LING			Phillip L	
TREWORKI						D	Address _		
			_, 19				_	Alma, WV	
GEOLOGICAL T									- 3337 feet
Ž.							otary/ Ca		_
							<u>2023</u> feet.	•	•
Coal se	an dept	:hs: _	740, 97	6, 17	240	Is coal t	peing mined in t	he area? <u>no</u>	
Work wa	is comme	enced	4/23	781		, 19,	, and completed	!2/1/81	. 19
CASING AND T	OKIEUT	PROGRA	M				•		
CASING OR	11	SPEC	IFICATI	0:15		FOOTAGE	THURRYALS U	CEMENT FILL-UP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft	:!ew	Used	For drillin	E Left in well	OR SACKS (Cubic feet)	
Canductor		٠.						_ <b>1</b>	Kinds
Fresh water	10					300	300	) :	
Coal	8 1/4					1700	1700	) ) old casing	Sizes
/Intermediate	6 5/8					2183	2183	į .	
Production	3 1/2					3350	<sup></sup> 3350	125 sx	Decths set
Tuting				:		•	·		
Liners									Perforations:
	•				1		RECE	VED	The Botton
				·					3
					1		DEC 2		
				·*····	- <del></del>		OIL AND GA	S DIVISION ENT OF MINES	11
OPEN FLOW D									
			<del></del> -	-		······································		Pay zone depth	3284 - 3337 fee
G	ıs: In	itial	open fl	ow, _		Mcf/d	Oil: Initial	open flow,	/2Bb1/d
	ri Fi	•					Final o		
•							l and final tes		
		•	_				e measurement)	after hou	irs shut in
						etion]			•
			•						fee
G:		•					Oil: Initial	<del></del>	
• •	F1	nal op	en flow	• -		Mcf/d	Final o	pen flow,	551/d
•		. 71-	e of op	en fl	ed wo.	tween initia	l and final tes	ts, hours	rs shut in
5	izilo r	ock pr	essure,			psig (surfac	e measurement)	after hou	ers shut in
						the freedomination of the second of	man in the same of	ه . محمد دارون <sub>و م</sub> دا تصماده پایمها دامم	and commenced with any man to the first of the formation

ETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Cemented on 5/26/81 with 125 sx. Perforated on 11/30/81 from 3290 to 3322 with 33 shots. Broke down formation at 3000 psi and shut well in. Reperforated on 12/1/81 from 3290 to 3310 with 21 shots. Fractured with 550 bbl. water and 17,000# of 20/40 sand. Average treating pressure 3450 psi at 14 BPM I.S.I. 2000 psi.

#### FLL LOG

FORMATION	Color	llard or Soft	Top Feet	Bottom Feet	Remarks Including Indication of all fresh
Sandstone & Shale Native Coal Sanstone & Shale Coal Sandstone Shale Sandstone & Shale Pittsburgh Coal Sandstone & Shale Big Dunkard SS Shale Sandstone Siltstone & Shale Sandstone Siltstone & Shale Sandstone Shale			0 739 740 975 976 1030 1050 1110 1239 1240 1726 1743 1812 1855 1990 2077 2120 2178 2430 2444 2458 2516 2713 3258 3263 3284 3337	739 740 975 976 1030 1050 1110 1239 1240 1726 1743 1812 1855 1990 2077 2120 2178 2430 2444 2458 2516 2713 3258 3263 3284 3337 3352	and salt water, coal, oil and gas
	<u>.</u>			•	
					•

(Attach separate sheets to complete as necessary)

QUAKER STATE OIL REFINING CORPORATION Well Operator

By Dichael C. Brannock

Michael C. Brannock - Sr. Geologist

MOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geologial record of all formations, including coal, encountered in the drilling of a well."



#### DEPARTMENT OF MINES

## Oil and Gas Division

### OIL AND GAS WELL PERMIT APPLICATION

TO THE DEBARTMENT OF MINER	
TO THE DEPARTMENT OF MINES,  Charleston, W. Va.	0.4.11. 1000
·	DATE October 1, 1980
Surface Owner LEWIS WETZEL HUNTING GROUND	Company QUAKER STATE OIL REFG. CORP.
Address DNR, Charleston, WV	Address P.O. Box 1327, Parkersburg, WV 2610
Mineral Owner Mills Wetzel Lands, Inc.	Farm John Mills, Jr. Acres 5228.5
Address 10 S. LaSalle St., Chicago, IL 6060	00 Location (waters) Buffalo Run
Coal Owner Mills Wetzel Lands, Inc.	Well No. 138 Elevation 1402
Address same as above	
Coal OperatorNone	0-11 751
Address	
S PERMIT MUST BE POSTED AT THE WELL SITE	
provisions being in accordance with Chapter 22, the W. Va. Code, the location is hereby approved	INSPECTOR
fracturing . This permit shall expire if	TO BE NOTIFIED Phillip L. Tracy
erations have not commenced by $6-14-81$	ADDRESS Rt. #3, Alma, WV 26320
A Company of the second	Rec. #3, Aima, wv 20320
Deputy Director - Oil & Gas Division	PHONE 758-4573
GENTLEMEN:	
The undersigned well operator is entitled to drill upon	the above named farm or tract of land for oil and gas, having f
Lands The Ollaker Case may be) under grant or leas	e dated November 30, 19 48 by Mills Wetzel
Lands, Inc. made to QUAKER STATE OIL RE	of G. CUKErd recorded and the 1/
	day of bepeen
19_80 in Wetzel County, Book 60A	Page381
19_80 in Wetzel County, Book60A  NEW WELL DRILL DEEPER	Page381
19_80 in Wetzel County, Book 60A	Page 381  REDRILL XXX FRACTURE OR STIMULATE
19_80 inWetzel County, Book60A	Page 381  REDRILL XXX FRACTURE OR STIMULATE LED BEFORE JUNE 5, 1969.
NEW WELL DRILL DEEPER XXX OIL AND GAS WELL ORIGINALLY DRILL  The enclosed plat was prepared by a registered enginee have been notified as of the above date.  The above named coal owners and/or operator are herely	Page 381  REDRILL XXX FRACTURE OR STIMULATE  LED BEFORE JUNE 5, 1969.  r or licensed land surveyor and all coal owners and/or operators  by notified that any objection they wish to make an area required.
NEW WELL DRILL DEEPER NEW WELL DRILL DEEPER XXX OIL AND GAS WELL ORIGINALLY DRILL The enclosed plat was prepared by a registered enginee have been notified as of the above date.  The above named coal owners and/or operator are herel to make by Section 3 of the Code, must be received by, o Copies of this notice and the enclosed plat were mailed or coal owners at their above shown respective address.	Page 381  REDRILL XXX FRACTURE OR STIMULATE  LED BEFORE JUNE 5, 1969.  r or licensed land surveyor and all coal owners and/or operator  by notified that any objection they wish to make, or are required r filed with the Department of Mines within ten (10) days. *  by registered mail, or delivered to the above named coal operator October 1, day 1980 before a coal operator october 1.
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# THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO	DRILL	DEEPEN XXX FF	RACTURE-STIMULATE	
DRILLING CONTRACTOR: (If		RESPONSIBLE AGENT:		
NAME QUAKER STATE OIL		NAME Carl J. Carlson		
ADDRESS P.O. Box 1327,	Parkersburg, WV 26101	ADDRESS P.O. Box 1	327, Parkersburg, WV 26	
TELEPHONE <u>614-423-9543</u>		TELEPHONE 614-	423-9543	
ESTIMATED DEPTH OF COMP	LETED WELL: 3347	ROTARY	CABLE TOOLS XXX	
PROPOSED GEOLOGICAL FOR	MATION: Gordon, Big Inj	un		
TYPE OF WELL: OIL_	XX GAS CO	MB STORAGE	DISPOSAL	
			ODOTHER	
TENTATIVE CASING PROGRA	M:		en e	
CASING AND TUBING	USED FOR			
SIZE In Hole	DRILLING	LEFT IN WELL	OR SACKS - CUBIC FT.	
20 - 16				
- 10	300	300	Andrew State   1870   1	
9 - 5/8				
8 1/4" 6 5/8"	1700 2183	1700		
5 3/16"		2183		
5 3/16" 4 ½	3075	3075		
	un 4 1/2" to 3347' with	slotted liner	D C 10	
2 on bottom and multiple	stage cementing collar		Perf. Top Perf. Bottom	
Liners Cement to 300' above	Big Injun.		Perf. Top	
	V		Perf. Bottom	
APPROXIMATE FRESH WATER APPROXIMATE COAL DEPTHS	DEPTHS NA FEET 740', 976', 1240'	SALT WATER _	2023 FEET	
IS COAL BEING MINED IN TH			•	
	ID AILDA:	BY WHOM?		
TO DRILL:				
SUBMIT FIVE (5) COPIES OF PLAT.	OF OG - 1, \$100.00 PERMIT	FEE, PERFORMANCE BO	ND AND PERMANENT COPY	
TO DRILL DEEPER OR REDRII	LL:			
SUBMIT FIVE (5) COPIES	OF OG - 1, SHOWING ORIGIN	AL PERMIT NUMBER ANI	PERFORMANCE BOND ON	
MEDES DRIFTED LKIOK	TO 1929, A PERMANENT COP	Y OF THE PLAT AND T	HE ORIGINAL WELL RECORD	
MUST ALSO BE SUBMITTE	ED.	•		
TO FRACTURE - STIMULATE:				
OIL AND/OR GAS WELL O BOND, PERMANENT PLAT	RIGINALLY DRILLED BEFORI ' AND ORIGINAL WELL RECO	E JUNE 5, 1929, FIVE (5) C RD.	OPIES OG - 1, PERFORMANCE	
OIL AND/OR GAS WELL O	RIGINALLY DRILLED ON AND IMBER,AND PERFORMANCE B	OOR AFTER JUNE 5 1929	, FIVE COPIES OG - 1, SHOW-	
four (24) hours in advance.	d within ninety (90) days of con	mpletion for bond release.	Inspector to be notified twenter	
			# Xn.,	
			The second secon	
			·	
The following waiver must	be completed by the coal opera	tor if the permit is to be is	sued within ten days of receipt	
WAIVER: I the undersigned, Age	ent for	Coal Company, Owner	or Operator of the coal under	
this lease have examin	ed and place on our mine map	s this proposed well location	on.	
We the	Coal Company ha	ve no objections to said we	ll being drilled at this location,	
providing operator has	complied with all rules and regula	tions in Articles 4, 5, and 7,	Chapter 22 of the West Virginia	
Code.				
		l'or	Coal Company	
<u>.</u>		<u></u> .	_	
			Official Title	