

•			בי	PARTME	STATE OF	WEST VI	RGINIA AND GAS DIVISI			, 19_8
FORM IV	7-35		_	· AIIII	WI OF MINE	3, UIL .	WIND GWO DIAIO!	Operator'	3 1 MTII	C 10 "35=
(08.74	.c,	8 E	9		WELL OPER	ATOR'S	REPORT			S, JR. #157
FORM IV Obvers	E30	DRILL	ING, TA	<u>AJTURI</u>	NO AND/OR	OF Stimula	TING, OR PHYS	APT Wel	%o. <u>47</u> - State	103 - 122
BE	ر میں ہے۔ میں میں	1981								
WELL TYPE:	ec <u>15 XX</u>	- DIV	SINES .	/ L1	quid Injec	tion	/ Waste Di	sposal/		
1	(12/10)	APT OF	duction	n	/ Underg	round s	torașe /	Deep /	Shallew	()
LOCATION:	Nevati	on:	1354		Watersh	ed:	Buffalo	Sposal/ Deep/ Run	*******	
1	Distric	t:	Grant		County:	Wetz	:el ລະ	adrangle: Pi	ne Grove	7.5'
WELL OPERATOR	R QUAR	Pox 1	1227	KEFG	· CURP.			Carl J. (
					2 1227		Address	P.O. Box		,
•	Fair	CI SDUI	y, wv	2010	2-1327	-	-	Parkersbi	urg, WV	26102-1327
PERMITTED WAS	5%· ሆະ	41) Y	(Y/ Co.	nvent	/ Dmf	11 daa-		111/ Fra		
Talkit I I I I I I I I I I I I I I I I I I I									cture or s	timulate
							te new format			
	.05	ner phi	/Sical	change	in well (specify)			
										
PERMIT ISSUE	_ אכ ס	March	30,		19 81		OIL & GAS INS	PECTOR FOR THIS	S WORK:	
(IF APPLICAE	LE: PI	LUGGING	OF DRY	HOLE	on		Name Phi	llip L. Tracy		
REWORKI	NG. V	CGRESSI ERBAL P	on from ERMISSI	ON OUT	LING OR TAINED		Address	Rt. #3		
			, 19					Alma, WV 2		
GEOLOGICAL T					Gordon					*o
								able Tools		
							1565 feet.		*****	
								the area? <u>no</u>	•	
Work wa	. «on=	enced	Jul	v 19.		. 81	eing mined in	July 24		. 01
							sau cúmbieteu	<u> </u>		13 01
CASING AND T	DKIEUT	PROGRAN	4							•
CASING OR	11		(FICATI		F	OOTAGE	INTERVALS	CEMENT FILL-U	=11	PACKERS
TUBING TYPE	Size	Grade	Weight cer ft	l:!ew	n			OR SACKS (Gubic feet)		
Canductor								(94010 1551)	1)	
Frash water	8 5/8		20	xx		392	392	125 sx	Hinds	
Coal						<u> </u>	332	123 38		
/Intermediate									Sizes	-
	4 1/2	.1-55	9.5	\	324	1	2241	400		
	17 1/2	0-33	3.5	XX	324		3241	490 sx	Desths s	<u>a</u> •
Tubing	-			 					-	
Liners	 								Perfora:	!ns:
					·				777	301105
									<u> </u>	
					·		<u> </u>			
OPEN FLOW DA	.T.1						/	OBOPD +15	MCF	
Product		72 * * 0 0	GO	rdon				,	-	2000
			-					Pay zone dept		
Ga.	. 74.	reign o	pen 110)W,	SHOW MC	r/d	Oll: Initial	open flow,	Show B	.1/4
	ri							pen flow,		1/d
								its, hour		
							measurement)	after 12 ho	urs shut i	n.
					ompletion-	_				•
								Pay zone dept		[ee,
Ga	s: In	itial o	pen flo	ow,	Mc :	r/a ·	Oil: Initial	open flow, _		1/4
•	Fi:	nal ope	n flow		Mc	٢/٩	Final c	pen flow,		o1/d
		Time	of ope	en flo	w between :	initial	and final tes	its, hour	3	·• ·
S:	atic r	ock pre	essure,		psig (:	surface	measurement)	after hour	urs shut d	n 1001
									111.1 2	7 1901

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

Perforated from 3145 to 3193 GL with 30 shots. Frac'd with 780 bbl. water and 28,000# 20/40 sand. Breakdown at 2900 psi. Treated at 2650 psi and 33 BPM. I.S.I. 2000 psi.

ELL LOG

		T			
FORMATION Shale	Color	llard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Sandstone Shale & Siltstone Sandstone Shale Sindstone Shale Sandstone Shale Sindstone Shale Sindstone Shale Sig Lime Sig Lime Sig Injun Shale Sordon Shale Sordon Shale Sordon Shale			0 155 181 901 958 1055 1073 1130 1565 1621 1643 1743 1833 1907 1933 2008 2053 2108 2235 2250 2276 2289 2305 2276 2289 3136 3140 3143 3200	155 181 901 958 1055 1073 1130 1565 1621 1643 1704 1833 1907 1933 2008 2053 2108 2250 2276 2276 2289 2305 2276 2289 2305 2365 2569 3136 3140 3143 3200 3270 D.T.	
					- · · · · · · · · · · · · · · · · · · ·

(Attach separate sheets to complete as necessary)

QUAKER STATE OIL REFINING CORPORATION

Well Operator

By Dichael C. Brannek

Its <u>Michael C. Brannock - Sr. Geolog</u>ist

OTE: Regulation 2.02(i) provides as follows:

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

FORM IV-2 ' (Obverse)	STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION	Date: March 17, , 1981
[08-78]		Operator's
	OIL AND GAS WELL PERMIT APPLICATION	Well No. JOHN MILLS, JR. #157
WELL TYPE: O	11 X / Gas/	API Well No. 47 - 103 - 1227 State County Permit
	If "Gas", Production/ Underground storage/ Description	sen / Shallow /)
LOCATION: EI	levation: 1354 Watershed: Buffalo Run	, Sh2115W/)
Di	istrict: Grant County: Wetzel Quad	rangle: Pine Grove 7.5'
	QUAKER STATE OIL REFG. CORP. DESIGNATED AGENT	
	· · · · · · ·	P.O. Box 1327
	Parkersburg, WV 26101	Parkersburg, WV 26101
OIL & GAS ROYALTY OWNER	Mills Wetzel Lands, Inc.	None
	115 So. LaSalle Street MAR 1 8 1984 dres.:	none
	Chicago Illinois 60603	
Acreage	5228.5 DEDT COAL RIGHT (S) WILL	
_	DE MINISTER	Mills Wetzel Lands, Inc.
	Charleston, WV 25305	115 So. LaSalle Street Chicago, Illinois 60603
_	5228.5 Name	Chicago, Hillions 60603
FIELD SALE (19	The state of the s	
Name	None	
Address _	COAL LESSEE WITH	DECLARATION RECORDS
•	Name Name	None
OIL & GAS INSE	PECTOR TO BE NOTIFIED Address	
Name	Phillip L. Tracy 758-4573	MAR 2 4 1981
. Address _	Rt. #3	
_	Alma, WV 26320	OIL & GAS DIVISION DEPT. OF MINES
ጥ ክ o	undergianed well executes t	
	undersigned well operator is entitled to operate for oil	
	r a deed XX / lease/ other contract/ dated ell operator from Mills Wetzel Lands, Inc.	Nov. 30, 19_48, to the
	lease, or other contract has been recorded:]	•
County, West V	Sept. 22 , 19 80 , in the office of the Clerk of the Virginia, in Deed Book 60A at page 381	County Commission of Wetzel
PROFOSED	WORK: Drill XX / Drill deeper / Redrill / Fract	A permit is requested as follows:
	Plug off old formation/ Perforate new forma	
ا الجار عدد في الوالزود و الجوار وهامور على على	Other physical change in well (specify)	tion/
•	planned as shown on the work order on the revers	
The	above named coal operator, coal owner(s), and coal lessee	
objection they	wish to make or are required to make by Code § 22-4-3 mu	are nercoy notified that any
of Mines with!	in fifteen (15) days after the receipt of this Application	by the Department
	es of this Permit Application and the enclosed plat and r	
by registered	mall or delivered by hand to the above named coal operator	r coal owner(a) and assay
n or before t	the day of the muilling or delivery of this Permit Applicat	ion to the Department of The
sarleston, We		con co one peparement of Mines at
PHYSICAL LO	COPIED OF ALL OGS DIRECTLY TO:	
VIRGINTA	U Mill (1:1.)	IL REFINING CORPORATION
CONSERVATI WASHIMITO	ON COMMISSION Carl J Carlson	Well Operator
Eston, wy	25311 SI SMIST ROWN BU (///	1//

Dist. Production Manager

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CON	TRACTOF	(IF	(HOMN) _		Cli	nt Hurt & A	ssociates		•
			F	lddre:	ss	P.O. Box 3	88		
•	•					Elkview, W	V 25071	•	
GEOLOGICAL T	ARGET I	FORMAT	ION,		Go	rdon			na ang kalanggan sa mga kapatan sa Tanggan sa mga kapatan sa mga kapat
. Estimat	ed dept	th of d	complete	ed we	11,	3270	f eet	Rotary XX/	Cable tools
								t, 1770 feet.	
									? Yes, No_XX ,
·• ·							•		
CASING AND T	UBING		•				• •		
CASING OR TUBING TYPE	C.1	1	IFICATION NET THE PROPERTY OF	1	1		INTERVALS	CEMENT FILL-UP OR SACKS	PACKERS
	3124	Grade	per It	HeM	used	For drilling	g Left in we	11 (Cubic feet)	
Conductor Fresh water	b 5/0	T 55	20	VV		350	250		Kinds
•		0-00	20	XX		330	350	cemented to	suriace
Coal		·		 `					Sizes
Intermediate	li .	77 55	0.5	777		2070	2070	450	
	4 1/2	K-33	9.5	XX		3270	3270	450 sx	Depths set
Tubing									
Liners	 			-	-				Perforations:
				-	 				Top Bottom
					 			- : 	
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the c 200 f where is no	onsent eet of A IMS P Led as	require the prosper separate such a s	n the s red by (reposed ate Form MUSFIELD on the	ame u Code well m IV- ulgti Form	222- 2 sha LDiA	the jee required to the second to the part of the part of the second to	ired by Code e owner of a quired for f of the work Hection ther	and Regulation 23 and Regulation 23 2:-4-12a, and ny water well or racturing or stim for which a permievith.	(v) if applicable, duelling within
	All pro	v i⇔o ≋si. W., Va	being in	accor	dance	with Chapter 2 hereby approve	2,		
	for	drill	ing						
	o peralic			mence	d by 1	rmit shall expire	.it		•
Andrea Company on the	7		7/1)	7	Th	_1		
	Dept	ıty Dire	ctor - Oil	<u>-111</u> & Gas	Division	LXV.			
· T)	he foll	osina	vaiver	must	be co	Smuleted by 1	the soal one	rator and by any	
						la declarati (15) days oj			the permit
						WAIVE	<u> </u>	·	
well location the work pro	s examion, the	ned the well to be	done at	osed on has	well s beer	ition provi	it a mine ma ne mine map.	ssee / of the p exists which control the undersigned lonerator has coling regulations.	coal under this well vers the area of the has no objection to mplied with all
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