

STATE OF WEST VIPGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION Date- September 11, , 19 8 FORM IV-35 Operator's Well No. JOHN MILLS, JR. #15 WELL OPERATOR'S REPORT APT Wei No. 47 - 103 - 122 State County Permi [08-75] OF APT Well DRILLING, TRACTURING AND/OR STEW/LATING, OR PHYSICAL CHANGE WELL TYPE: Oil XX / Gas / Liquid Injection / Waste Disposal / (If "Gas", Production___/ Underground storage___/ Deep___/ Shallow___/ LOCATION: Elevation: 1438 Watershed: Buffalo Run District: Grant County: Wetzel Quadrangle: Center Point 7.5' WELL OPERATOR QUAKER STATE OIL REFG. CORP. DESIGNATED AGENT Carl J. Carlson Address <u>P.O. Box 1327</u> Parkersburg, WV 26102-1327 Parkersburg, WV 26102-1327 PERMITTED WORK: Drill XX/ Convert __/ Drill deeper __/ Redrill __/ Fracture or stimulate Plug off old formation___/ Perforate new formation___/ Other physical change in well (specify) PERMIT ISSUED ON March 30, 19 81 OIL & GAS INSPECTOR FOR THIS WORK: (IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED Name Phillip L. Tracy Address <u>Rt. #3</u> __, 19__ Alma, WV 26320 GEOLOGICAL TARGET FORMATION: Gordon Depth 3303-3346 feet Depth of completed well, 3405 feet Rotary XX / Cable Tools Water strata depth: Fresh, nd feet; salt, 1721 feet. Coal seam depths: _____ na ____ Is coal being mined in the area? _____ i Work was commenced <u>6.129/81</u>, 19____, and completed <u>7/5/81</u>_____, 19____ CASING AND TUBING PROGRAM CASING OR TUBING TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT FILL-U PACKERS Canductor 421 Fresh water | 8 5/8 J-55 20 XX 421 160 sx Coal Sizes ·Intermediate 4 1/2 K-55 Production 3401 9.5 xx 455 sx 3401 Tuting Liners Perforations: OPEN FLOW DATA Pay zone depth 3303-3346 feet Producing formation ____Gordon Cas: Initial open flow, Show Mef/d Oil: Initial open flow, Show Final open flow, 10 Mcr/d Final open flow, Time of open flow between initial and final tests, ____ hours Static rock pressure, 125 psig (surface measurement) after 12 hours shut in [If applicable due to multiple completion--] Second producing formation ____ Pay zone depth Cas: Initial open flow, _____Mcf/d Oil: Initial open flow, Final open flow, _____Mcf/d Final open flow, Time of open flow between initial and final tests, _____ hours Static rock pressure, _____ psig (surface measurement) after _____ hours shut in

Reverse)

08-78]

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

Perforated from 3305 to 3348 with 44 shots.

Frac'd with 790 bbl. water and 28,000# of 20/40 sand. Broke at 3000 psi, treated at 3000 psi and 22 BPM. I.S.I. 2100 psi.

/ELL LOG

FORMATION	Color	llard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
					and salt water, coal, oil and gas
Shale & Siltstone			0	1002	·
Sandstone			1002	1113	
[.] Shale & Siltstone			1113	1210	•
Sandstone			1210	1232	
Shale ·			1232	1280	
Sandstone			1280	1395	
Shale .			1395	1721	
Sandstone & Shale			1721	2258 ·	Salt Sands
Shale	•		2258	2433	
Limestone			2433	2447	Little Lime
Shale			2447	2450	Pencil Cave
Limestone -			2450	2520	Big Lime
Sandstone			2520	2718	Big Injun
Shale & Siltstone			2718	3287	
Sandstone			3287	3291	Gordon Stray
Shale & Siltstone			3291	3303	gordon struy
Sandstone			3303	3346	Gordon
Shale			3346	3405	L.T.D.
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(Attach separate sheets to complete as necessary)

QUAKER STATE OIL REFINING CORPORATION Well Operator

Michael C. Brannock - Sr. Geologist

NOTE: 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."

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FORM IV-2 (Obverse)	STATE OF WES DEPARTMENT OF MINES,	T VIRGINIA OIL AND GAS DIVISION	Date: March 17, , 1981
[08-78]	Off AND GAG was a		Operator's Well No. <u>J. MILLS</u> , JR. #154
•	OIL AND GAS WELL P	ERMIT APPLICATION	API Well No. 47 - 103 _1224
WELL TYPE: O11 XX/ Ga	s/		State County Permi
(If "Gas", Prod	uction/ Undergrou	nd storage/ D	eep/ Shallow/)
LOCATION: Elevation:	1438 Watershed:	Buffalo Run	
District: G	rant County: W	etzel Quad	rangle:Center Point
WELL OPERATOR QUAKER STATE	OIL REFG. CORP.	DESIGNATED AGENT	Carl J. Carlson
Address P.O. Box 1			P.O. Box 1327
. Parkersbur	g, WV 26101		Parkersburg, WV 26101
OIL & GAS ROYALTY OWNER Mills Wetze	el Lands. Inc. Mag	COAL CERTAIN	None .
Address 115 So. La	Salle Street	COAL OFERVIER	
	llinois 606	10/1/20	
Acreage 5228.5		TO DIVISION WILLIAM WI	TH DECLARATION ON RECORD.
SURFACE OWNER Lewis Wetze	el Hunting Ground	Name E	TH DECLARATION ON RECORD: Mills Wetzel Lands, Inc.
Address Dept. of Na	atural Resources		115 So. LaSalle Street
	WV 25303		Chicago, Illinois 60603
Acrence 5228.5	<u> </u>	Name	
FIELD SALE (IF MADE) TO:			
Name None			
Address		COAL LESSEE WITH	DECLARATION ON RECORD:
		Name	المساح
OIL & GAS INSPECTOR TO BE N	OTIFIED	·	
Name Phillip L.	Tracy 758-4573	•	MAD 2.4 1001
Address Rt. #3			WAIN 5 1 1381
Alma, WV 2	26320		OIL & GAS DIVISION
The understaned w	oll operator to entitled		DEPT. OF MINES
location under a deed XX	/ lease / other o	ontrock	or gas purnoses at the above Nov. 30, , 19 48 , to the
undersigned well operator f			Nov. 30, 19 48, to the
[If said deed, lease, or ot			
			County Commission of Wetzel
			A permit is requested as follower
	XX/ Drill deeper/		
•	fr old formation/ physical change in well	•	tion/
	mysteat charge in well	(spectry)	
	and as shown on the work		
	ned as shown on the work	•	• • • • • • • • • • • • • • • • • • • •
Objection they wish to make	Or one nearing to the	(3), and coal lessee	are hereby notified that any
			st be filed with the Department
of Mines within fifteen (15			
by registered mail or deliver	and hypercation and the	enclosed plat and r	eclamation plan have been mailed
on an before the day of the	mull become deliberate and	e named doal operation	er, coal owner(s), and coal lesse-
Charleston, West Virginia.	matting or delivery or	this Permit Applicat	ion to the Department of Mines at
programme very title,			
PLEASE SUBMIT COPIES OF ALL SEOPHYSICAL LOSS DIRECTLY TO	0:		
WEST VIRGINIA OIL AND GAS		QUAKER STATE O	IL REFINING CORPORATION
CONSERVATION COMMISSION 1615 WASHINGTON STREET EAST	823 S 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Carl J. Carl	Well Operator,
CHARLECTON, WY 25311	Slawaet bond	By (m)	1/2
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[08-78]

PROPOSED WORK ORDER

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

DRILLING CON	TRACTOR	R (IF K	(NOWN)		Cli	nt Hurt & As	ssoc.			•
			1	Address P.O. Box 388					·	
•	•					Elkview, W	25071			
GEOLOGICAL T	ARCET I	FORMATI	ON	G	ordon					
			-				Coot			
							_ reet	Rotary_XX_/ (Cable tools_	/
							· ·	ned in the area		
npp: onz			im depu				coar being mi	ned in the area	? Yes,	No XX /
CASING AND T	UBING 1	PROGRA	1							
CASING OR TUBING TYPE	SPECIFICAT Weigh Size Grade per f		Weight	,,		1		וו אורעכ ו	PACKERS	
Conductor									Kinds	
Fresh water	B 5/8	J-55	20	X		350	350	cemented to		
Conl									Sizes	
Intermediate						·				
Production	4 1/2	K-55	9.5	Х		.3460	3460	450 sx	Depths set	
Tubing -									Denoting Sec	
Liners									Perforation	
									Top	Botton
								•		
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All	provisio	ns Being	in acco	ordanc	e with	Chapter 22,				
of 1	ine W.	Va. Cod	a, the lo	cation	is here	by approved				-
for		-		5		shall expire if				•
ope.	ronons. II	igve ner	commend	ed by	9/	7	artesta jasta. Kanada			
	Deputy [)irector -	Oil & G	ge Div	vision.					
7.	hu foll r coal	lowing lessee	vaiver who he	must 15 re	be co	i a declarati	he coal opera on under Code receipt ther	tor and by any \$ 22-4-20, if sof:	eral ouner the permit	, <u>.</u>
						WAIVE	<u>R</u>	•		
well location the the work pri	s exami on, the oposed	lned the well to be	is prop location done at	oosed on ha t thi	well s been s loca	n added to th ation, provid	f a mine map e mine map.	ee / of the exists which co The undersigned onerator has co g regulations.	vers the are	a of the
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