



IV-35 (Rev 8-81)

Beceived



not 10 - 1983

Olland Gas Division Bepartment of M.

Date	Septemb	er 30,	1983
Ocara.	tor's No		
	L.C. W		
-	0.47 -		- 3955

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

FIL TYPE:	Oil/ (If "Gas,"	Gas/ Œ	iquid Inje	ection	(X) Wast	e Disposal e/ Deep	/ Sha	llow/)
	Elevation: District:	898	Watershe	ed Wi	11s Creek	of Little	Sandy Cr	eek
	QUAKER STATE P.O.Box 1327, D AGENT Ca	Parkersbur	g, WV 261	02-132	_	Used in Drilling		Cement fill up Cu. ft.
ADDRESS_	Same as a	bove ennings			Tubing Size 20-16 Cord.	DETTING	III WELL	
MINERAL F	Box 142, Siss RIGHTS CWNER 1618 Kanawha	L.C.Wilso Blvd., Char	on Pleston, WV		13-10* 9 5/8 8 5/8	336	336	cts
DUCKWOPEN	ADDRESS	s Gassaway	, WV 2002	107 24	7 5 1/2	2029	2029	150 sx
DRILLING DRILLING	COMMENCED_	5/25/83 5/29/83			4 1/2 3 2	2029	2023	1000
CONTINUO	CABLE: PIUG PROGRESSI NG. VERBAL F	ON FROM DR	ILLING OR		Line rs us ed			
Deg	TAL TARGET FO oth of comple cer strata de al seam depti	eted well_	2058 h 305	_feet feet;	Rotary Saltl	XX / Cab 19 9 fee	le Tools t	
OPEN FLA	OW DATA	ation	N A			ay zone de	epth	feet
	Tin	en flow_ re of open :	flow betwe	Mcf/d en ini	I tial and	final open	ts	hours
(I	atic rock pr f applicable	essure 80	00 psig Itiple com	g(surfa mpletio	ce measu n)	cement) af	terh	nours shut i
Se Ge	econd product as: Initial Final o	open flow pen flow		Mcf/d Mcf/d	Oil:	Initial op Final open	en flow_ flow_	Ep1/
S	Tio	me of open	ricw betw psig	een ini (surfac	e measur	ement) aft	er	hours shut i DEC 1 2 1988 roverse sid

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

Perforated from 1907 - 53 w/24 shots.

Frac'd with 106 bbl. water and 16 sx of 20/40 sand.

Fm. breakdown - 3000 psi

ISIP - 800 psi

WELL LOG

		888
TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ca
0	167	
167	305	
305	312	
312	1199	
1199	1708	
1708	1754	
1754	1761	
1761	1898	
18 98	1955	
1955	2058 TD	
		e de la companya de
		A SHOUTH TO ANY SHOP SHOWS
	•	The series of the art decay.
		The state of the species and
+ / 1	The state of the s	
		1878 B. C. C. S. S.
en granden av var granden	And Annual Control of Control	
	0 167 305 312 1199 1708 1754 1761 1898 1955	0 167 167 305 305 312 312 1199 1199 1708 1708 1754 1754 1761 1761 1898 1898 1955 1955 2058 TD

(Attach separate sheets as necessary)

OUAK	CER STATE OIL REFINING CORPORATION	
Well	Operator	
:	Steve Opritza - Geologist	
By:	· Muit Buta	
Date:	9/30/83	

Note: Regulation 2.02(i) provides as follows:

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

2) Operator's
Well No. L.C. WILSON #WIW-4 (Obverse) :1-02**~8**3† 3) SIC Code DRILLING CONTRACTOR 4) API Well No. 47 - 039 - 3955 CLINT HURT & ASSOCIATES State County Permi P.O. Box 388, Elkview, MV 25071 5) UIC Permit STATE OF WEST VIRGINIA LIQUID INJECTION OR WASTE DISPOSAL WELL PERMIT APPLICATION For Both DEPT. OF MINES, OFFICE OF OIL AND GAS, DNR, DIVISION OF WATER RESOURCES 6) WELL TYPE: Liquid Injection XX/ Disposal Gas Injection / 7) LOCATION: Elevation 898' Watershed Wills Creek of Little Sandy Creek District Elk County Kanawha Quadrangle Blue Creek 8) WELL OPERATOR QUAKER STATE OIL REFG. CORP. 12) DESIGNATED AGENI Carl J. Carlson Address P.O. Box 1327 Address P.O. Box 1327 Parkersburg, WV 26102-1327 Parkersburg, WV 26102-1327 9) ROYALTY OWNER L.C. Wilson 13) COAL OPERATOR Address 1618 Kanawha Boulevard Address___ Charleston, WV Acreage 279 14) COAL OWNER(S) WITH DECLARATION ON RECORD: 10) SURFACE OWNER W. P. Jennings, etal TENTE P Address Box 142, Sissonville, WV 25185 Address Acreage 139.91 Name 11) OIL AND GAS INSPECTOR TO BE NOTIFIED BEFORE Address DRILLING, AND 24 HOURS IN ADVANCE OF ANY OR & GAS DIVISION MECHANICAL INTEGRITY TEST 15) COAL LESSEE WITH DECLARATION ON RECORD: D. Craig Duckworth P.O. Box 454 Address Name Mt. Lookout, W.Va. 26678 Address The undersigned well operator is entitled to operate for liquid injection or waste disposal purposes at the above location under a deed / lease / other contract XX/dated Nov. 30 ,19 73, to the undersigned well operator from Mareve Oil Corp. (If said deed, lease, or other contract has been recorded:) Recorded on Dec. 3, 1973, in the office of the Clerk of the County Countsion of Kanawha County, West Virginia, in Assignment Book 82 at page 66. A Kanawha County, West permit is requested as follows: 17) FROPOSED WORK: Convert / Drill xx / Drill deeper / Fracture or stimulate / Plug off old formation / Other physical change in well (specify) 18) Date of first liquid injection or waste disposal: July 1, PROPOSED WORK ORDER THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-37 UPON COMPLETION 19) Esrimated depth of completed well 2073' feet Rotary XX / Cable tools / 20) Approximate water strata depths: Fresh, 293 feet; salt, 1237 feet. CEOLOGICAL TARGET FORMATION Big Injun Depth 1896 feet(rop) to 1952 feet(bottom) a) Virgin reservoir pressure in target formation 530 psig; Source Shut-in Test (24h b) Estimated reservoir fracture pressure 1400 psig (BHFP) c) Perforation intervals 1896 - 1952 Open-hole intervals None 23) MAXIMUM PROPOSED INJECTION OPERATIONS Volume per hour: 20 bbl. Bottom hole pressure: 20 bbl. psig DEIAILED IDENTIFICATION OF MATERIALS TO BE INJECTED - PLUS ADDITIVES Formation brine from Big Injun & bacteriacide, corrosion inhibitor, and scale inhibitor 24) treated with x-cide xc-402 Spec. gravity = 0.963 SPECIFICATION FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL None 25) 26) FILTERS (IF ANY) 2 Stage Filter System: 75 micron cartridge vessel on main line and 5 micron cartridge vessel at the injection well.

27)	CASING AND I	UBING	PROGRA	<u>M</u>						
	CASING OR		SPECIE	FICATION	IS	•	FOOTAGE IN	71	CEMENI FILL-UI	PACKERS
	TUBING TYPE	Size	Grade	Weight Der ft.	INew	Used	For drilling	Left in well	OR SACKS Cubic ft.	
	Conductor	1 2 2 3 5	Ortion	3 5 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2						Kinds
	Fresh water	8 5 / 8	H-40	20	XX		28 32A	988232	8 cts Neat	·
	Coal	370			1 33-					Sizes
	Intermediate				1	 -				
	Production	41/2	J-55	9.5	XX		2073'	2073'	207 sx.	Depths set
	Tubing									
	Liners									Perforations
		1			_					Top Botton
		1				 				
		1			-					
28)	been mailed	or de	livere	d by hai	d to	the	above named c	coal oper	d reclamation pator, coal owne	er(s), and
	coal lessee	on or	before	e r.ĥe da	ay of	the	mailing or de	livery o	E this Permit A	
	to the Depar	tment	of MI	nes at (Charl	estor	n, West Virgin	uia.		
	person signir			ment sha	all m	ake t	he	QUAKER S	STATE OIL REFINI	
foll	owing certifi	catio	n:						Well Operat	or
	"I certify u							_ (/	$)$ $\mathcal{A}(1)$	
	rersonally e information							By (poly Colon	
	all attachme	ents a	ınd tha	t, base	d on	my it	ngui ry	Its Car	nl J. Carlson	
	of those inc for obtaining							Dis	strict Productio	on Manager
	the informat	cion i	s true	, accur	ate,	and o	con-			
Surger (plete. I am penalties fo									
	including th	ne pos								
	prisonment.									
						IJΔ	IVER			
	The inv	domei e	mod co	al oner				01 mor	/ 10550	
	of the coal	urder	this	well lo	cario	n ha	s examined thi	is propos	/ lessee sed well locario	on. If a
	mine map ext	ists w	thich c	overs t	he ar	rea of	f the well lo	cation, t	the well location	on has been
									the work propose th all applical	
							governing reg			· •
	*									
	Date:		······································	,19	•		1	Ву:		
								Its		
										and the second s
					OI	FICE	USE ONLY			
Pen	mit number 4	17 - 039	-3955			P	ERMIT	May 4		19 83
·	idi. Hamber -	1 000						riay 4	Dare	17 65
II.E.	s parrit com	w lna t	-ha ral	1 00000	For 1		oll looption	oloum hol	low is evidence	of normingion
gran	ited to drill	in ac	cordar	ice with	the	pert	inent legal r	equi remei	its subject to	the conditions
cont	tained herein Gas Tuspecto	and o	on the	reverse	here	eo£. iop (Notification	must be	given to the D	istrict Oil
work	(Refer to	No. 1	(Ó)	TIC CONS	C L CIC.	TOIL	or roads, roa	we ous ar	d pits for any	permare ed
In a	addition, the	well	operat	or or h	is co	ontra	cror shall not	rify the	proper Distric	t Oil and
gas	inspector 24	hours	s betor	е астиа	l per	anitt	ed work has co	ommenced.	•	
								٠.		
	mit expires _		ary 4,				urless	work is d	commenced prior	to that date
सारा	prosecuted w	ith di	æ dili	gence.						
E.	ord:	Agent.	· 1	Plat:	Casi	20.	Fee:	\ /	7~2	
	91/1	O.		m e	· last	. J	720	trust	Dude	
	Slander	M. J	5		MI	1	825/	VCTIIT DT	strator, Office	or orr aim ea



STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION SECTION OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name:	JENNINGS,	W. P., El	TAL 3	Operato	r Well	No.:L.C. W	VILSON #4
LOCATION:	Elevation:	898.00	Quadra	angle:	BLUE CR	EEK	
	Distitudo:	2750 8-			County:	KANAWHA	
,	District: Latitude: Longitude	4750 Fe	et Souti et West	of 36 of 81	Deg. Deg.	30 Min. 0 25 Min. 0	Sec. Sec.
Well Type:	OIL						
Company:	Ouaker State	Corporation	1	Coal	Operato	r N/A	
	P.O. Box 189			or Ow	ner *		
	Belpre, OH 4						
Agent:	Frank Rotun	da		Coal	Operato	rN/A	
	ed: 05/26/9		:	or Ow	ner		
			AFFIDA	. 37 T m			
STATE OF WE	ST VIRGINIA	_		ZATI			
County of _	Kanawha	_ ss					
_	Leroy Bush		and	Roger A	Atkinson		being e experienced
first duly	sworn acco	rding to	Taw depo	se and	sav th	at they ar	e experienced
ciic above	Mameu Well	ODeraro	7 200 F	13 F F 1 M 1 7	^ + ^ d · ·	~	
and fillin	g the above	well, an	d 🧖	arlos Hi	701.	. CIIC WOLK	Of plugging Oil and work was
Gas Inspec	tor repre	senting	the Dir	ector.	sav 1	that sai	d work was
commenced	on the as plugged	22nd	day of	Octo	ber	1992	and that
the well w	as $plugged$	and fil	Ted in	the fol	llowing	manner:	and chac
	PE	FROM		TO	PIPI	E REMOVED	ा.स.स.म
6% Gel		2029		1990	1		1
Class A C	mt. 18 sks	1990		1753	- i		
6% Gel		1753		1162	0-2000	2 3/8	4½X2 3/8R4PKR
					-	, 2 3/8	@ 2000 ·
Cut 4½ @	1162				0-1163	2 4 4 3	
Class A C	mt 47 sks	1162		1012	- -0-1102	43	<u>1162-2029 4\frac{1}{3}</u>
6% Gel		1012		387	-		
Class A C	mt. 31 sks	387	i —		-	10/1	
6% Gel		287		20/		this o	336 8 5/8
Class A C	mt. 31 sks			<u> 100 </u>	_ '	TH-	19/10/20
Descri	mt, 31 sks otion of mor	nument:	5½" Casino	, O	17- 39-039	55-D Den 16	, (22, (22
and tha	at the work	of pluc	gging an	d filli	ng said	Well was	completed on
he <u>22nd</u> (day of Octob	per -	, 19_	92.	J Gard	cii was	compreted On
and furthur	deponents s	saith mat		P		1	
TWI CHAI	deponents	saith not.	•	Xaye	moy &	sush	
			*	(Silver	201S.	and i	
Sworn and su	bscribe bef	ore me th	nis 8H	day	10 f 17 19		1000
ly commission	on expires:_	3-14-95		— /daj//	,	cambe	
* , , <u>, _ , _ , _ , _ , _ , _ , _ , _ , </u>			-	Sol	ous c	7 Bron	ch
रुप्तान्त्रम् सं, तेष्ट्राव्ये १ जिल्हा	* 5			/	N 2	otary Publ	Lic Dat 18 1992
pomentation in the World See	Oil an	d Gas Ins	spector:		arkers	w. Hen	ely
					13-	3-92	7