



OIL & GAS DIVISION DEPT. OF MINES



Sinte of Mest Airginia Pepartment of Mines Gil und Gas Division

Date 1/17,	/84					
Operator's #4						
Farm Sue Dav	vis					
API No. 47 -	085 - 6757					

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Г ∕ СЪФТОМ•	(If "Gas," Elevation:		n _{XX} / Under Watershed						_′ ′
TOM:	District:	Grant	County	Rit	chie	Quadrangle	e Petrole	um 7½'	_
	<i></i>					•			
COMPANY P	etroleum Develo	pment Cor	poration	•			<u> </u>		
ADDRESS P	. 0. Box 26, Br	idgeport,	WV 26330		Casing	Used in	Left	Cement fill u	
DESIGNATE	D AGENT Michae	el L. Edwa	rds		Tubing	Drilling	in Well	Cu. f	-
ADDRESS P	. 0. Box 26, Br	idgeport,	WV 26330	-	Size				
SURFACE C	WNER West Virg	ginia Pulp	& Paper	-	20-16 Cond.				
address <u>#</u>	2 Ferguson Driv	ve, Parker	sburg, WV 26	101	11-3/4 13-10"	30	30	To Sur	face
MINERAL F	RIGHTS OWNER DE	vis-Hewit	t Lea se	•	9 5/8				
ADDRESS 4	09 E.Main,Harri	sville,WV	26362	-	8 5/8	1055	1055	265 SI	ks.
OIL AND	GAS INSPECTOR 1	FOR THIS V	NORK Samuel	-	7				
N. Hers	man ADDRESS E	Box 66,Smi	thville,WV 2	6178	5 1/2				
PERMIT IS	SSUED Novem	ber 1, 19	83	-	4 1/2	4639	4639	400 S1	ks.
DRILLINC	COMMENCED Dec	ember 21,	1983		3				
DRILLING	COMPLETED Jan	nuary 2, 1	984	_	2				
CONTINUO	CABLE: PLUGGI US PROGRESSION G. VERBAL PER	FROM DRI	LLING OR		Liners used				
CN	·			-	<u> </u>		<u> </u>		
GEOLOGIC	AL TARGET FORM	ATION	Rhinestree	t		Dep	th5500	0	fee
Dep	th of complete	d well 4	700 fæ	et F	otary X	X / Cabl	e T∞ls_		
Wat	er strata đept	h: Fresh	¹³² fee	et;	Salt_ 16	80 feet	,		
Coa	l seam depths:	N/A			Is coal	being min	ed in the	e area?	No
OPEN FLO	w data								
	ducing formati	on D	evonian Shal	.e	Pa	y zone dep	th 2648-4	580 :	fee
	: Initial ope						C		
	Final open	-						10) B	
			ow between				_		
Sta	tic rock press	_							t i
	applicable di							OV 0 E 1	
•	cond producing		•			y zone dep			
	: Initial ope								
			Mcf						
•			.ow between						
Sta	atic rock pres	-							t i

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

		4073-4414 Huron
4-Stage	Frac Job	4580 Acid/gal N2 (Scf) Foam H20 Sand (1bs.)
lst	13 Perfs	$\frac{\text{Acid/gal}}{(4073-5980)} + \frac{\text{Acid/gal}}{\text{bron 500}} = \frac{\text{N2 (Scf)}}{864,000} = \frac{\text{Foam H20}}{78} = \frac{\text{Sand (1bs.)}}{8,500}$
2nd		(3431-3866) Huron 600 1,060,000 10 balls
3rd	19 Perfs	(3000-3372) 400 737,800 (2648-2927) 400 737,800
4th	18 Perfs	(2648-2927) 250 737,800

WELL LOG

FORMATIO	n color hard or soft	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
	K.B G.L.	0	10	½" Stream Fresh H ₂ O @ 132'
	Sand, Shale, Red Rock	10	1150	
	Sand	1150	1200	
	Sand, Shale, Red Rock	1200	1535	Gas @ 1414 (Order)
	Sand	1535	1600	
	Shale	1600	1625	
	Sand	1625	1740	1" Stream Sal∳H ₂ O @ 1680'
	Big Injun	1740	1836	
	Sand, Shale	1836	2226	
	Sunbury Shale	2226	2234	
	Berea	2234	2238	
	Sand, Shale	2238	2659	
•				
	Gordon Stray/Gordon	2659	2683	4700 2238 1040
	Sand, Shale	2683	3322	2462 3660
	Huron	3322	4414	
	Java	4414	4700	,
			(TD)	
•				
			1	

(Attach separate sheets as necessary)

Well Opera	ator			
By:			•	
Date:				

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

NOTE: Keep one copy of this permit posted at the drilling location.

1)	Date:	Septemb	er 30	. 19	83
2)	Operator's Well No.		#4	-,	
3)	API Well N	o. <u>47</u> –	085- 6757		-
		State	County	Pe	rmit

Administrator, Office of Oil and Gas

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION

		•		<u> </u>	PPLICA	TION FOR A WEL	L WORK PERM	IT	
) WELL TY	YPE; A	Oil X	<u>x</u> /_ G	as X	X . /				
			, Productio			/ Underground s	torage	/ Dan	/ (1 11 3737
LOCATIO		evation:				Watershed: 0	il Spring	Deep	/ Shallow XX/)
	D	istrict:	Gran	nt.		Country	Ritchia		Petroleum 7½'
WELL OF	PERATOR	PETROI	LEUM DE	VELO	PMENT	CORPORATION	7) DESIGNATI	Quadrangle:	AEL L. EDWARDS
Addres	PO PO	BOX 26	5, 103	EAST	MAIN	STREET	Address	PO BOX 26	103 EAST MAIN STR
		DGEPOE		263			Address	BRIDGEPORT	W 26330
OIL & GA	AS INSPEC	TOR TO	RE NOTE				M DDIII. N. C.		, WV 2033U
Name	San	uel N.	Hersu	ian		,		CONTRACTOR:	
Addres		Box 66							
			e.W	261	78	•	Address		
PROPOSE				3242					915 (C) 5 1 (V)
PROPUSE	ED WELL	WURK:	Drill		∠ Drill		/ Redrill	/ Stimulate	
to the			Plug of	f old f	ormation	Perfora	te new formatio	n/	1/12
CPOLOG		CDT 70-	Other p	hysical R	change in ninest	n well (specify)			1003
GEOLOG				· —	III.IES	TEEL .			10154 1202
12) Estim						feet	3000		
13) Appro						feet; salt,_		feet.	OIL & GAS DIVISION
	oximate coa					Is coa	being mined in th	ne area? Yes	DE PARTIE MI
	AND TUB	ING PRO	GRAM						DEP 1. OF IVE
ing or ing type		SPEC	CIFICATIONS Weight	3	ı	FOOTAGE IN	TERVALS	CEMENT FILL-UP	PACKERS
	Slav	Grade	per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	lones
etor	TT 3/4	H-40	32#	x		30'	30'	cement to su	L-C
vater						•		Calletic to st	T. YSIGE
y 11/						-			
ediate	8 5/8	J-55	23#	x		1200'	1200'		Sizes
tion.	4 1/2	J-55	10.5#	x		5500'	5500'	cement to st	rface By Rule 15
			- "					500 sks	Depths set
		V 100 - 100 - 100							
									Perforations:
			12.00					#	Top Bottom
7.									
***************************************			<u>!1</u>						
			*			OFFICE VICE CO			
·						OFFICE USE OF			
		-				DRILLING PER	MIT		
t number	4.	7-085-	<u>6757</u>						November 1, 1983
								Date	
ermit cover	ring the we	ll operato	r and well	location	shown	below is evidence of	nermission arons		
nents subjec	ct to the co	nditions c	ontained h	erein an	d on the	reverse hereof. Notif	ication must be o	iven to the District Oil	e with the pertinent legal re- and Gas Inspector, (Refer to
PTIOP to th	e construct	tion of ros	ids, locatio	ns and p	pits for a	ny permitted work. I	n addition, the w	ell operator or his cont	and Gas Inspector, (Refer to ractor shall notify the proper
•	•			um peri	IIICICO W	n k mas commenced.)			
rmitted wo	ork is as de	scribed in	the Notice	and Ap	plication	, plat, and reclamation	on plan, subject t	o any modifications an	d conditions specified on the
	Novembe	er 1. '	1985						
expires		,				unless well we	ork is commenced	prior to that date and r	prosecuted with due diligence.
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di nh	Agent:	· L	late.	Casing		Fee			
ei Rni	ND Agent	1/1	1/1		L 8	29			, 9
	<u> </u>	142			7	22			
	:							レレデト	~ f