



### API # 47-017-03933 W

# State of West Virginia Division of Environmental Protection Section of Oil and Gas

MY

Well Operator's Report of Well Work

Farm name: Painter, Frederick III	Operator	Well No.:	Kerns 1	
LOCATION: Elevation: 1173.00 Quad	rangle: Fol	Isom	•	
District: McClellan Latitude: 13100 Feet South of 39 Longitude 11575 Feet West of 80	Dea. 25 Min. (	ounty: Doddr O Sec. O Sec.	idge	
Company: PETROLEUM DEVELOPMENT COR P. O. BOX 26 BRIDGEPORT, WV 26330-0026		Used in Drilling		Cement    Fill Up   Cu. Ft.
Agent: Alan H. Smith  Inspector: Mike Underwood  Permit Issued: 10/13/98  Well work Commenced: 10/20/98	Size	175'	175'	200 sks
Well work Commenced: 10/29/98 Well work Completed: 10/29/98 Verbal Plugging Permission granted on: Rotary Cable X Rig	8 5/8"	1704'	1704'	391 sks
Total Depth (feet) 2958' Fresh water depths (ft) 1369'	4 1/2"	5276'	5276'	540 sks
Salt water depths (ft) N/A  Is coal being mined in area (Y/N)? N Coal Depths (ft):545-550,755-760, 1000-1002		در خود مست محمد محمد خود خود محمد خود محمد محمد محمد محمد محمد محمد محمد مح		
OPEN FLOW DATA				·
Producing formation Fourth Sand  Gas: Initial open flow 500 MCF, Final open flow 800 MCF, Time of open flow between in Static rock Pressure 40 psice	/d Oil: In /d Fi nitial and	nal open fl	flow 0 low 0	Bbl/d Bbl/d Hours
Final open flow MCF, Time of open flow between in Static rock Pressure psic	/d Fi nitial and g (surface	final test pressure)	flow low s after	Bbl/d Bbl/d Hours Hours
NOTE: ON BACK OF THIS FORM PUT THE INTERVALS, FRACTURING OR STIMULATING, LOG WHICH IS A SYSTEMATIC DETAILED INCLUDING COAL ENCOUNTERED BY THE WELL	PHYSICA GEOLOGICA	L CHANGE.	AINS OF PE	CONORATED

By: Alan H. Smith

Date:

Kerns #1 47-017-03933 W

Fourth Sand Formation 14 Perfs (2917' – 2958')

FORMATION	TOP FEET BOTTOM FEET	REMARKS
KB-GL	0.00000000000000000000000000000000000	
sand, shale, RR	10 10 10 10 2036 10 10 40 40 40 40	Hole Damp@ 1369
Little Lime	2036 2062	Coal 545-550, 755-760
sand, shale	2062 2074	Coal 1000 - 1002
Big Lime	2074 2155	gas chk@ 2016 no show
Big Injun	2155 2254	gas chk@ 2327 6/10 - 2" H2o
sand, shale	2254 2610	
Gantz	2610 2633	
sand, shale	2633 2811	gas chk@ 2730 4/10 - 2" H2o
Gordon	2811 2846	
sand, shale	2846 2904	gas chk@ 2857 8/10 - 2" H2o
4 th	2904 2958	

Set Bridge Plug At 3000' and Frac: 0 SCF Nitrogen 250 Gal 15% HCL Acid 4000# 20/40 Mesh Resin Sand 36000# 20/40 Mesh Sand

Drill Out Frac Plug And Put Back In Line.

## API # 47- 17-03933

Division of Envi	west virginia ronmental Prote	ction
	Oil and Gas	Reviewed TMG
Well Operator's	Report of Well	WorkRecorded

PAINTER, FREDERICK & ROSE Operator Well No.: KERNS #1 Farm name:

LOCATION: Elevation: 1173.00 Quadrangle: FOLSOM

> District: MCCLELLAN County: DODDRIDGE Latitude: 13100 Feet South of 39 Deg. 25Min. 0 Sec. Longitude 11575 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: PETROLEUM DEVELOPMENT COR

P. O. BOX 26

BRIDGEPORT, WV 26330-0026

1000-1002 4001

Agent: ERIC R. STEARNS

Inspector: MIKE UNDERWOOD Permit Issued: 12/16/91 Well work Commenced: 01/23/92 Well work Completed: \_01/29/92 Verbal Plugging Permission granted on: Rotary x Cable Total Depth (feet) 3321 ' Fresh water depths (ft) 1369 Salt water depths (ft) Is coal being mined in area (Y/N)? N Coal Depths (ft): 545-550; 755-760;

_				
-	Casing &	Used in	Left	Cement
	Tubing	Drilling	in Well	Fill Up   Cu. Ft.
COS OPPLIES NA	Size			
Latin Ministry woman	11 3/4"	   175 <b>'</b> 	175'	  200 sks
	8 5/8"	1704'	1704'	391 sks
en apanesario Ottocomo Maria	4 1/2"	5276'	5276'	540 sks
-				

#### OPEN FLOW DATA

Producing formation	Benson		Pay zone depth	(f+) 5	196-5199
Gas: Initial open flow_	267 MCF/d	Oil: Ini	tial open flow		Bbl/d
Final open flow	335 MCF/d	Fir	al open flow	0	_Bbl/d
Time of open flow	between init	ial and	final tests	/,	Hours
Static rock Pressure 1	<u> 220                                   </u>	surface	pressure) afte	r 72	Hours
Second producing format	ion		Pay zone depth	(ft)	
Gas: Initial open flow_	MCF/d	Oil: Ini	tial open flow	(/	Bbl/d
Final open flow	MCF/d	Fir	al onen flow		Bbl/d
Time of open flow	between init	ial and	final tests		Hours
Static rock Pressure	psig (	surface	pressure) after	r	Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD, OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE. <

For: PETROLEUM DEVELOPMENT CORP.

By:	Eric R. St	earns	MAR	A	94747
Date:	February 27,	1992		V	A Company (a)

## Kerns #1

STAGE	FORMATION	PERFS	SKS	SKS	GAL	(MCF)
lst	Benson	13 (5196-5199)	100	450	500	66

## WELL LOG

FORMATION		TOP F	FEET	BOTTOM	FEET	REMARKS: FRESH & SALT WATER, COAL, OIL & GAS
KB - GL			0		10	
sand, shale,	RR		10	2	036	Hole Damp @ 1369'
Little Lime		2			062	Coal 545-550; 755-760
sand, shale		2	2062	2	074	Coal 1000-1002
Big Lime		2	2074	2	155	gas chk @ 2016' No Show
Big Injun					254	gas chk @ 2327'6/10-2"H20
sand, shale			2254		610	
Gantz					633	
sand, shale					811	gas chk @ 2730'4/10-2"H20
Gordon					846	
sand, shale					904	gas chk @ 2857'8/10-2"H20
4th			2904		958	
sand, shale					973	
5th					021	gas chk @ 3014' 4/10-7"H20
sand, shale					541	gas chk @ 3296' 4/10-7" H20
Speechley					004	gas chk @ 3700' 4/10-7" H20
sand, shale			1004		060	gas chk @ 3917' 40/10-2" H20
Balltown					561	
sand, shale					645	
Bradford					752	13 0 40051 44400 011 7700
sand, shale					861	gas chk @ 4825' 44/10-2" H20
Riley						
sand, shale		ב	)TT0		171	gas chk @ 5166' 80/10-2" H20
Benson				5		gas chk @ 5198' 90/10-2" H20
sand, shale	,				325	~D133 ED 40/10 087700
		5	5325	5	345	Driller TD 40/10-2"H20
				=	21 5	DC's 24/10-2"H2O
				5	315	Logger TD

NOV 25 1991

DEPT. OF ENERGY

Page\_\_of\_\_

Operator's Well Number:	FORM	WW-2B			on them t	TOCINITA	Fage	2 111 100
Neell Operator:			DDD DDWI	STATE SVE OF FNI	OF WEST V	SION OF OIL	AND GAS	NEW 12116143
Neell Operator:			DEPARIME	WELL WOR	C PERMIT A	PPLICATION	THE CONTROL OF THE CO	
Well Operator:   Kems #1   3) Elevation:   1173'     Operator's Well Number:   Kems #1   3) Elevation:   1173'     Well type: (a) Oil					Petroleum D	Sevelopment Corp	oration פסבפ	(5) 349
Well type: (a) Oil/ or Gas	L)	Well Oper	ator:			· · · · · · · · · · · · · · · · · · ·		
(b) If Gas: Production Deep Shallow Deep Shallow Deep Shallow Shallow Deep Shallow Sha							3) Elev	vation: 11/3
(b) If Gas: Production Deep Shallow Deep Shallow Deep Shallow Shallow Deep Shallow Sha	4)	Well type	: (a) 0	il_/	or Gas	<u>x</u> /		
Proposed Target Formation(s):   Proposed Total Depth:			(b) I	f Gas: P	roduction_ Deep_	/ Undergro	ound Storage Shallow	<u>×_</u> /
### Approximate fresh water strata depths:	5)	Proposed	Target F	ormation(	Ale:	xander 439		
Approximate fresh water strata depths:    None reported	6)	Proposed	Total De	pth:	5500		105, 1500	
Approximate salt water depths:  275, 352, 542, 802, 895, 1527  Approximate coal seam depths:  275, 352, 542, 802, 895, 1527  10) Does land contain coal seams tributary to active mine? Yes / No / N	7)	Approxima	te fresh	water st	rata dept	hs:	405, 1580	
Approximate coal seam depths:  10) Does land contain coal seams tributary to active mine? Yes / No / N	8)	Approxima	te salt	water dep	ths:		95 1527	
Casing and Tubing Program   Casing and Tubing Program	9)	Approxima	te coal	seam dept	hs:			, No X
CASING AND TUBING PROGRAM  TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT  Weight For Left in Fill-up (cu. ft.)  Conductor 11 3/4 H-40 40 30/180 30/180 surface  Fresh Water 3858 H-42 20\23# 1050/1685 1050/1685 Surface  Production 41/2 L-55 10.5 5500 5500 400 sks  Tubing	10)	Does land	d contain	coal sea	ms tribut	ary to acti	ve mine? Ye	s/ NO/
SPECIFICATIONS   FOOTAGE INTERVALS   CEMENT	11,)	and the second s						
Size   Grade   Weight   For   Left in   Fill-up   (cu. £t.)	12)			CASIN	AND TUBI	NG PROGRAM		
Size   Grade   Weight   For   Left in   Fill-up   (cu. ft.)	TYPE		SI	PECIFICAT	IONS	FOOTAGE IN	ITERVALS	CEMENT
Conductor  11 3/4  H-40  40  30/180  30/180  surface  Resh Water  30/180  1050/1685  Surface					Weight			
Conductor         30CSP/8 1/.3           Fresh Water         38CSP/8 1/.2           Coal         85/8           Intermediate         85/8           Production         41/2           L55         10.5           5500         5500           400 sks           Tubing								surface
Solution	Cond	luctor	11 3/4			100,100	77	1 mt
Solution	00110			3QCSR1	311.3 2	$\mathcal{L}$		1 19
Solution	Fres	sh Water		7000	0-110.0	$\langle \cdot \rangle$		TX MILL
Intermediate   8 5/8   H-42   20\23#   1050/1685   1050/1685   301149	C077	1		36011	8-11-00		1	1101
Intermediate         Production         4 1/2         1.55         10.5         5500         5500         400 sks           Tubing         Tubing         30,5376/12	Cual	<u> </u>	8 5/8	H-42	20\23#	1050/168	5 1050/16	\$ Surface
Tubing Tubing	Inte	ermediate	,					
Tubing	Proc	duction	4 1/2	<u> 1-55</u>	10.5	5500	5500	400 sks
Liners			,					30001011

PACKERS : Kind Sizes Depths set For Divison of Oil and Gas Use Only Reclamation Fund WPCP Well Work Permit

(Type)

	1 of	1)	
	WW2-A 37)	2)	Operator's well number John Kerns #1
```		3)	API Well No: 47 - 017 - 3933
			State - County - Permit
		STATE OF WES	ET VIRGINIA DECENTA
			TO VIRGINIA RECEIVED RECEIVED
		NOTICE AND APPLICATION	FOR A WELL WORK PERMIT NOV 25 199
4)	Surface O	wner(s) to be served:	5) (a) Coal Operator:
- ,	(a) Name	Frederick & Rose Painter	Name
	Address	4028 Lunar Drive	Address
	•	4028 Lunar Drive Anchorage, AK 99504	
	(b) Name		(b) Coal Owner(s) with Declaration
	Address		Name Same as surface
			Address
	(c) Name		
	Address		Name
			Address
6)	T	Mika Indominad	
0 /	laspector	Mike Underwood Rt. 2, box 135	(c) Coal Lessee with Declaration
	Address _	Salem, W 26426	Name
	Telephone	(304) - 782-1043	Address
	rerephone	(303) 700 1040	
Section I have	acts by when the served of the	nich I hold the right to is the information requi f the Code of West Virgi that as required under copies of this notice ar ocuments pages 1 through onal Service (Affidavit	Chapter 22B of the West Virginia Code ad application, a location plat, and on the above named parties, by: attached)
famil attac respo	e terms and I certify iar with the homents, and insible for	nd conditions of any per under penalty of law th the information submitte nd that based on my inqu	er 22B and 38 CSR 11-18, and I agree mit issued under this application. Lat I have personally examined and amed on this application form and alluiry of those individuals immediately sion, I believe that the information
			cant penalties for submitting false
infor	mation, in	ncluding the possibility	of fine and imprisonment.
mana		<u>-</u>	Petroleum Development Corporation
1	OF	FICIAL SEAL STATE	Geologist
Time.			P.O. Box 26
	JERRY	ALAN CTIDE	Bridgeport, W 26330
2100			, 304-842-6256
Subse	wibed and	Telephone	attay of Moventy , 199/
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-			ery (llan to Notary Public
My CO	mmission e	vnires Mark 1996	

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