



LOCATION:

Farm name: Cumberledge, Lambert

Company:PETROLEUM DEVELOPMENT COR

BRIDGEPORT, WV 26330-0026

P. O. BOX 26

|Cement |

|Fill Up|

Operator Well No.: CUMBERLEDGE #1

| Casing | Used in | Left

& |

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

Well Operator's Report of Well Work

District: MCCLELLAN County: DODDRIDGE
Latitude: 3200 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 4300 Feet West of 80 Deg. 40 Min. 0 Sec.

Elevation: 1228.00 Quadrangle: SMITHBURG

Agent: ERIC R. STEARNS	Tubing	Drilling	in Well	Cu. Ft.
	Size			~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Inspector: MIKE UNDERWOOD	90000	0 00014454		
Permit Issued: 12/18/92 Well work Commenced: 03/28/93	11 3/4"	179'	179'	108 sks
Well work Completed: 04/01/93 Verbal Plugging				danata
Permission granted on:	8 5/8"	1977'	1977'	490 sks
Rotary v Cable Big		esercia.		
Total Depth (feet) 5440' Fresh water depths (ft)	4 1/2"	5408'	5408	547 sks
Salt water depths (ft)	Maria Sana Maria Sana Ma Maria Sana Ma Ma Maria Sana Ma Maria Sana Ma Maria Sana Ma Ma M	in the second se		
Is coal being mined in area (Y/N)? N Coal Depths (ft):349-354	1877 - 1874 - 18	AN ES.		
			on some even clear come come even even clear or	
OPEN FLOW DATA				1
Producing formation Benson Gas: Initial open flow 34 MCF Final open flow 375 MCF Time of open flow between i Static rock Pressure 1350 psi Second producing formation Gas: Initial open flow MCF Final open flow MCF Time of open flow between i Static rock Pressure psi	/d Oil: Ir /d Fi nitial and g (surface	Pay zone of itial open inal open flatinal teste pressure)	depth (ft) flow low after after	Hours 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 WEL	GEOLOGICA	AL CHANGE, AL RECORD	ا (2 با التاسل	FF177 FT FT FT
For: PETROLE	UM DEVELOR	MENT CORP.	***************************************	
Reviewed Date:	Eric R. St April 27,			
RECOT CON Commission of the contract of the co			1447 . G 1	1993

Cumberledge #1

STAGE	FORMATION	PERFS	80/100 SKS	20/40 SKS	ACID N2 GAL (MCF)
1ST	Benson	13(5319'-5322')	50	340	500 50.9

WELL LOG

FORMATION	TOP FEET	BOTTOM FEET	REMARKS: FRESH & SALT WATER, COAL, OIL & GAS	
KB - GL	0	10		
sand, shale, RR	10			
Maxton	1977			
sand, shale	2055	2150	Coal 349'-354'	
Big Lime	2150		gas chk @ 2101' No Show	
sand, shale	2301		6	
Big Injun	2305		gas chk @ 2311' No Show	
sand, shale	2383		Q Q	
Weir	2534	2585		
sand, shale	2585			
Berea	2734		gas chk @ 2438' No Show	
sand, shale	2755			
Gordon	2925			
sand, shale	2978	3242	gas chk @ 2622' no show	
5th	3242	3278	gas chk @ 2808' no show	
sand, shale	3278	3567	gas chk @ 3059' no show	
Warren	3567	3644	gas chk @ 3403' no show	
sand, shale	3644	3680	0	
Speechley	3680	4010	gas chk @ 3812' no show	
sand, shale	4010	4045		
Balltown	4045	4414		
sand, shale	4414	4455	gas chk @ 4911' no show	
Bradford	4455		gas chk @ 5255' no show	
sand, shale	4574			
Riley	4769	5238		
sand, shale	5238		gas chk @ 5317' 8/10-1" w/H20	
Benson	5286	5441	Driller TD	
sand, shale	-	5440	Logger TD	

DF = 424 DFT = 435 FORM WW-2B

16571

STATE OF WEST VIRGINIA

Expuse 12/18/94

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

	1)	Well Ope:	rator:		Petroleum D	⟨ ⟨ ⟨ ⟨ ⟨ ⟩ ⟩ ¬ ¬ ¬ ¬ ¬ ¬ ¬ ¬ ¬ ¬ ¬ ¬ ¬	oration 383	200 (5) 4/
	2)	Operator	's Well A	Number:	Çun	nberledge #1	3) Ele	evation: _1228'_
	4)	Well type	e: (a) (oil_/	or Gas	<u> </u>		
			(b)	If Gas:	Production Deep		ound Storage Shallow	
	5)	Proposed	Target I	Formation	ı(s): <u>Ben</u>	son Sand 435		
	6)	Proposed	Total De	epth:	5500	feet		
	7)	Approxim	ate fresi	n water s	trata dept	hs: 222'	1127', 1227', 1312'	
	8)	Approxim	ate salt	water de	pths: Nor	e Reported		
	9)	Approxim	ate coal	seam dep	oths: Nor	e Reported		Market Control of the
	10)	Does lan	d contain	n coal se	ams tribut	ary to acti	ive mine? Yo	es/ Nox_/
	11)	Proposed	Well Wo			r Lagranda (1981)		
	12)				& stimulate new	en e		
	den 1.0 de. 100.					NG PROGRAM		
	TYPE	The state of the s	S	PECIFICAT	TIONS	FOOTAGE IN		CEMENT
		nangan kangan kanga Kangan kangan kanga	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
	Cond	uctor	11 3/4	H-40	42#	150	150	Description of the Contract of
3	Fres	h Water		Marinand countils countil the measure about wear the move orbital and in the decision.		MEDIANTSE O RECORDER CHEMISMO MONOCERS COSTUM MEDICATOR (MOTOSTORIO DE INCHES	\$	3868R61K3
4	Coal	****					((38.CSRA-11.22
	Inte	rmediate	8 5/8	H-40	20/23	1450	1450	Surface
	Prod	uction	4 1/2	J-55	10.5	5500	5500	450 sks
	Tubi	ng						-385RIG-141
	Line	rs				DANGKAN MANAGARING MANAGARINA KATAN INDI MANAMATAN MANAGARINA KATAN MANAGARINA KATAN MANAMATAN MANAGARINA KATA		
	PACK	ERS : Kin						
	۱ ،	Siz Dep	es ths set					
0	0	44	F	gry Divise	on of Oil a	and Gas Wise	Only	7
أر		Fee(s)	aid:	- Well	Work Permit	Rec	lamation Fun	d WPCP
		Plat	WW-9 (WW.	-28	sond Min	rket	_ Agent
		-7/		//	//		(Type)	•

Page	1 of		1)	Date: D	ecember 11, 1992	
Form	WW2-A	_	2)	Operator	's well number	
(.09/8	37)		_,	C	umberledge #1 No: 47 - 017 -	·······
			3).	API Well	State - County - F	4998
					state - County - F	'ermit
			STATE OF WES			
		DEPARTMENT	OF ENERGY, D	IVISION OF	OIL AND GAS	
		MONTON AND	ADDITCAMION		NODE DOMES	
		NOTICE AND	APPLICATION	FUR A WELL	WORK PERMIT	
4)	Surface (Owner(s) to b	e served:	5) (a) C	oal Operator:	
	(a) Name	Lambert	Cumberledge	Name		····
	Address E	Coute 2, Box 174	06456	Address		***
	(b) Name	est Union, WV	26456	(b) Cool		
	Address			Name No	Owner(s) with Declar Declaration on File	iration
						
	(c) Name				-	
	Address _			Name		
				Address	***************************************	
6)	Inspector	r <u>Mike Underwo</u>	nođ	(c) Coal	Lessee with Declara	hion
0 ,	Address	Route 2, Box 13	35		Depose with pecials	
	-	Route 2, Box 13 Salem, WV 2642 e (304)782-1	26	Address		
	Telephone	e (304)- <u>782-1</u>	L043			
		מס שעי מיים מר	MICI NAMED A	שעגיי שעזיסם	NOTICE MUAM.	
		10 Ing Parac	N(S) NAMED P	POAF TWE	NOTICE THAT:	
	Included	is the lease	or leases o	r other co	ntinuing contract or	<u>-</u>
conti	acts by	which I hold	the right to	extract c	il and gas <u>OR</u>	
					pter 22B, Article 1,	,
Sect		of the Code o				
T has					B of the West Virgingion, a location plate	
					e above named partie	
	Per:	sonal Service	(Affidavit	attached)		
					ipt attached)	
	Pub	lication (Not	ice of Publi	cation att	ached)	
	I have r	 *abau bac bee	etand Chante	220 220	38 CSR 11-18, and I	36700
to th					under this applicat	
					personally examined	
					application form and	
					se individuals immed	
		or optaining rate, and com		ion, I bel	ieve that the inform	nation
19 6				cant nenal	ties for submitting	false
info				of fine a	nd imprisonment.	
	OFFICIAL	SEAL V	Well Operater		um Development Corporati	Lon
	NOTARY P	PUBLIC E	y:	Role	<u> </u>	
	J CHARONJ. E	ERNison 3 -	ts: <u>Geolog</u> Address P.O.			
31000	BRIDGEPORT, 1	ADV 50000	***************************************	eport, WV 2	6330	·····
	My Commission Expires	January 10, 2000		04) 842-6256		
Subs	cribed and	d sworn befor		lth day of	December	, 19 <u>9</u>
				Way.	To Branch	
Mv c	ommission	expires Ja	nuary 10, 2000	Hain	Motary Wotary	y Public
			4 /			

WR-35 Rev (5-01)

DATE: 03/20/08

API#: 47-017-04008 - F

State of West Virginia Department of Environmental Protection Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Payton, C	George D.			Operator V	Well No.: <u>Cumbe</u>	rledge l	
LOCATION:	Elevation:	1228.	00	Quadran	gle: SMITH	BURG	THE SECULAR OF THE SECULAR SEC
	District: Latitude: Longitude	MCCLE1 3200 4300	LLAN Feet Feet	South West	Count of 39 Dec of 80 Dec	y: DODDF g. 22Min. g. 40 Mir	IDGE 30 Sec.
Company: Petroleum	Development Corp				Marine of the 18th Arthurston and Controlled Marine States and Controlled States and Con	- Anna pa	
Address: 120 Genesi	is Boulevard		1 -			The second state of the second	
Bridgepor	t, WV 26330			Casing	Used in	Left	1 7 a m a m a 1
Agent: Alan H. Smit	h			£.			Cement Fill Up
Inspector:				Tubing	Drilling	in Well	Cu. Ft.
Date Permit Issued:				Size	·		
Date Well Work Con	nmenced: 7/24/2007	7				The second secon	WW 4554
Date Well Work Con	npleted: 7/24/2007			11 3/4"	179	179'	line eke
Verbal Plugging:							1200 365
Date Permission gran	ited on:			0 = 10#		description	
Rotary X Cal		r !		8 5/8"	1977	1977'	1490 sks
Total Depth (feet):					9999	Topographic state of the state	**************************************
Fresh Water Depth	(ft.):			_4_1/2"	5408'	<u> 5408'</u>	547_sks_
Salt Water Depth (f	t):				pinesto pinis	Personal District Control of Cont	TOTAL CERTIFICATION OF STREET, CO.
2007,1000							
Is coal being mined in	n area (N/Y)? N					***	
Coal Depths (ft.): 349	0-354		1i				
OPEN FLOW DAT	ſΑ						
Producing : Gas: Initi; Final Time : Static rock	formation al open flow 34 open flow 375 of open flow be k Pressure 1350	Benson MCF/6 MCF/6 tween in: psig	d Oil: d itial a	Pay zo Initial o Final ope and final ace pressu	ne depth (ft pen flow tests re) after	0 Bbl/d 0 Bbl/d 4 Hours 2 Hours	
Second forma	tion	gordon		Pay zo	ne depth (ft)	2954-76'	
Gas: Initial op	en flow M	CF/d Oil:	Initial o	pen flow	Bbl/d		
Final open	flow60N	ICF/d	Final or	en flow	Bbl/d		
Time of op	en flow between in	itial and fi	nal test	S	Hours		
Static rock Pre	essure200	psig (surfa	ice pres	sure) after _	Hours		
Gas: Initial op	cing formationen flowMe	CF/d Oil: 1	Initial o	pen flow	Bbl/d	256-67'	
Final open	flowM	CF/d F	inal ope	n flow	Bbl/d		
Time of op	en flow between in	itial and fi	nal tests	3	Hours		
Static rock Pre	essurecomm	psig ((surface	pressure) a	fterHou	rs	

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.

Signed:

By: Alan H. Smith
Date: 03/20/08

Cumberledge #1

STAGE	FORMATION	PERFS	80/100 SKS	20/40 SKS	ACID GAL	N2 (MCF)
lst	Benson	13(5319'-5322')	50	340	500	50.9

WELL LOG

FORMATION	TOP FEET BOTTOM	REMARKS: FRES M FEET WATER, COAL, C	SH & SALT DIL & GAS
KB - GL	0.	30	
sand, shale, RR		10 1977	
Maxton	·	2055	
sand, shale			
Big Lime			
sand, shale		2301 gas chk @ 2101 2305	.' No Show
Big Injun			
sand, shale		2383 gas chk @ 2311	.' No Show
Weir		2534	
sand, shale		2585	
Berea		2734	
sand, shale		2755 gas chk @ 2438	' No Show
Gordon		925	
sand, shale		2978	
5th		242 gas chk @ 2622	' no show
	3242 3	278 gas chk @ 2808	' Do show
sand, shale Warren		567 gas chk @ 3059	' no show
		644 gas chk @ 3403	
sand, shale	3644 3	680	MA DITOM
Speechley		010 gas chk @ 3812	' no show
sand, shale	4010 4	045	110 SIIOM
Balltown	4045 4	414	
sand, shale	4414 4	455 gas chk @ 4911	/
Bradford		574 gas chk @ 5255	no snow
sand, shale		769 gas clik @ 3233	' no show
Riley		238	•-
sand, shale			
Benson		441 Driller TD	' 8/10-1" w/H20
sand, shale			
*	•	440 Logger TD	