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## State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: BURTON, ALMA J

Operator Well No.: M. LOWTHER 1

LOCATION:

Elevation: 981.00 Quadrangle: AUBURN

District: COVE

Coal Depths (ft): \_\_ -

County: DODDRIDGE

Latitude: 13050 Feet South of 39 Deg. 10Min. 0 Sec. Longitude 3700 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: INTERSTATE DRILLING, INC. ROUTE 3, BOX 89-V Casing | Used in | Left Cement WESTON, WV 26452-9620 |Fill Up Tubing | Drilling | in Well | Cu. Ft. Agent: KENNETH L. POTE Size Inspector: MIKE UNDERWOOD Permit Issued: 09/19/91 Well work Commenced: 12/18/92 Well work Completed: 12/28/92 Verbal Plugging Permission granted on: \_\_11-3/4" Rotary\_x\_ Cable \_\_\_\_ Total Depth (feet) 5297 Fresh water depths (ft) 48' 8-5/8" 1120.15' 1120.15' Salt water depths (ft) 4-1/2" 5233.15' Is coal being mined in area (Y/N)? N

OPEN FLOW DATA

Producing formation Cedar Creek and Elk Pay zone depth (ft) 505	641-52211
MILE AND THE PROPERTY OF THE P	Bb1/d
Tinal Open tion 335 MCF/d Final ones flore	Bbl/d
Time of open flow between initial and final tests	Hours
Static rock Pressure 1340 psig (surface pressure) after 72	_Hours
Second producing formation See Details on Reverse Side Pay zone depth (ft)  Gas: Initial open flow MCF/d Oil: Initial open flow	
Gas: Initial open flow MCF/d Oil: Initial open flow	Bb1/d
Final open flow * MCF/d Final open flow	Bb1/d
Time of open flow between initial and final tests  Static rock Pressure psig (surface pressure) after	Hours
	Hours
gled with first stage.	

\*Co-ming.

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:	INTERSTATE DRILLING, INC.	-
Reviewed TMG	4		By:	
Recorded		/	Date: February 24, 1993	-

Jan TV

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 5-STAGE FOAM FRAC: CEDAR CREEK & ELK 5054'-5221' W/16 HOLES; 5,000# 80/100; 25,000# 20/40; 90 BBLS. SL FLUID 136 436 RILEY, BENSON & ALEXANDER 4644'-4987' W/14 HOLES; 5,000# 80/100; 25,000# 20/40; 90 BBLS. SL FLUID BRADFORD HOLES; 5,000# 80/100; 20,000# 20/40; 4423'-4460' W/8 87 BBLS. SL FLUID BALLTOWN 3895'-4025' W/9 HOLES; 5,000# 80/100; 20,000# 20/40; 87 BBLS. SL FLUID 433 . 433 WARREN & SPEECHLEY 3261'-3508' W/12 HOLES; 5,000# 80/100; 25,000# 20/40; 90 BBLS. SL FLUID DRILLER'S LOG: 10' SWAMP 0 ' SAND & SHALE 10' 281 GRAY MEDIUM 281 61' 1-1/2" STREAM OF WATER @ 48' SAND GRAY MEDIUM 1551 SHALE & REDROCK RED MEDIUM 61' 155' 1951 SAND & SHALE GRAY HARD REDROCK & SHALE RED MEDIUM 195' 6681 SAND & SHALE 6681 1750' GRAY MEDIUM 1750' LIME 17881 SAND & SHALE 1788' 1915 ' L. LIME 1915' 19281 SAND & SHALE 1928' 1953' B. LIME 1953' 20241 INJUN GRAY HARD 2024 ' 2087' SAND & SHALE GRAY MEDIUM 2087 4436' GAS CK. a 2238' - NO SHOW OIL ODOR a 2611' GAS CK. a 2706' 2/10 THRU 2" H 2 0 4436' 4480 ' BRADFORD BROWN MEDIUM 40 m/t SAND & SHALE GRAY 4480' 4651' MEDIUM RILEY 4651 GRAY-RED 4665 1 MEDIUM SAND & SHALE GRAY MEDIUM 46651 4866' BENSON BROWN 48661 4878 ' MEDIUM

49781

4981

51081

51141

52991

4878'

49781

4981

5108'

5114'

52991

MEDIUM

MEDIUM

MEDIUM

MEDIUM

DE DE

GRAY

GRAY

GRAY

GRAY

GRAY-WH, MEDIUM

50301

SAND & SHALE

SAND & SHALE

SAND & SHALE

TOTAL DEPTH

ALEXANDER

017-3909

David 09/19/91 STT 03 39 Expres 09/19/93Page 3 Of 8

FORM WW-2B

## STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS' WELL WORK PERMIT APPLICATION

l) Well O	perator:	Interstate D	G() Filling, Inc.	23950	2) 224		
2) Operat	or's Well	Number:	M. Lowther #	1	3) E	levation: 981'	
			or G				
	(b)	If Gas:	Production Dec	<b>₽</b> /	ground Storag Shallo	Je/ JW_x/	
5) Propose	1,00						
6) Propose	d Total	Depth:	5500	feet			
7) Approxi	mate fre	sh water	strata dep	ths: 25': 150'	155		
8) Approxi	mate sal	t water d	epths: 105	100 1420			
9) Approxi	mate coal	l seam de	oths:		(		
10) Does la	nd contai	n coal se	eams tribu	tary to act	ive mine? Ye	es/ No_x_/	
			and Stimulate				
12)							
TYPE	•			ING PROGRAM			
4-4 F E	S	PECIFICAT	IONS	FOOTAGE IN	ITERVALS	CEMENT	
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)	
Conductor	11-3/4"	H-40	<b>42</b> #	30'	0'		
Tesh Water						38CSR18-11.3	
coal		, and the second se			R	38CSP18/12/2	
ntermediate	8-5/8"	K-55	20#	1100'		Cement to Surface	
roduction	4-1/2"	J-55	10.5#		5450	380918-11. 1 \$500 Sacks	
ubing							
iners							
ACKERS : Kind							
Sizes							
For Divison of Oil and Gas Use Only							
Fee(s) paid: Well Work Permit   Reclamation Fund WPCP							
Plat I WW-9 I WW-28 I Bond Slinker Mike I Agent							

Page	1 of <u>8</u>	1)	Date:August 26, 1991
	WW2-A	2)	Operator's well number
(09/8			M. Lowther #1
rite	Copy	3)	
			State - County - Permit
		STATE OF WEST	VIRGINIA RECEIVED
		DEPARTMENT OF ENERGY, DI	
		NOTICE AND APPLICATION F	OR A WELL WORK PERMIT
4)	Surface O	wner(s) to be served:	
		Ms. Alma J. Burton	Name
	Address _	Rt. 1, Box 118	Address
	-	New Milton, WV 26411	
	(b) Name		(b) Coal Owner(s) with Declaration
	Address _		Name _Same as Mineral Owner
	(5) None		Address
	Address		Af - m c
	vaaress _		Name
			Address
6)	Inspector	Mr. Mike Underwood	(c) Coal Lessee with Declaration
	Address _	Route 2, Box 135	Name
		Salem, WV 26426	Address
	Telephone	(304)782-1043	
		TO THE PERSON(S) NAMED AB	
contr	acts by w	hich I hold the right to	other continuing contract or
X	Included	is the information requir	extract oil and gas <u>UR</u> ed by Chapter 22B, Article 1,
Secti	ion 8(d) o	f the Code of West Virgin	ia (see page 2)
	I certify	that as required under C	hapter 22B of the West Virginia Code
I hav	/e served Î	copies of this notice and	application, a location plat, and
accon	mpanying d	ocuments pages 1 through	8 on the above named parties.bv:
	_x Pers	onal Service (Affidavit a	ttached)
	Cert	ified Mail (Postmarked po	stal receipt attached)
	Publ	ication (Notice of Public	ation attached)
	I have re	ad and understand Charter	200 200
to th	r have le	ad and understand chapter	22B and 38 CSR 11-18, and I agree it issued under this application.
	I certify	under nenalty of law tha	t I have personally examined and am
famil	iar with	the information submitted	on this application form and all
attac	hments, a	nd that based on my inqui	ry of those individuals immediately
respo	nsible to	r obtaining the informati	on, I believe that the information
is tr	ue, accura	ate, and complete.	
	I am awar	e that there are signific	ant penalties for submitting false
inror	mation, i	ncluding the possibility	of fine and imprisonment.
		Well Operator	Interstate Drilling, Inc.
			Down him and the state of the s
		Address Route 3	Operations
			WV 26452
		Telephone (304)	
Subsc	ribed and	sworn before me this 28	
		02	1 1-
N		Mari	Notary Public
my co	mmission	expires October 31, 1994	<del></del>
		4	