

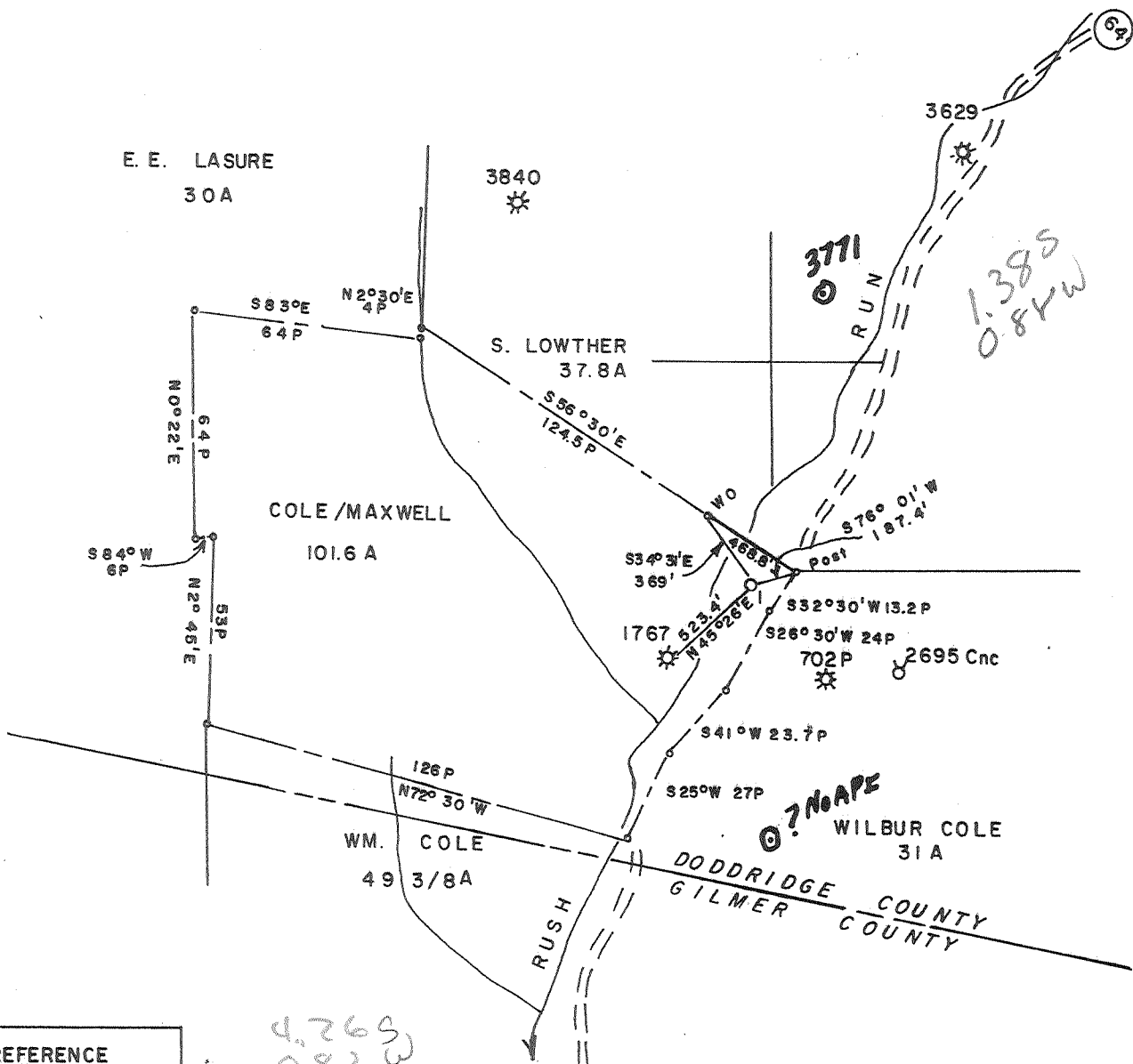
*Janice*  
9/17/91

LATITUDE 39°07'30"

4700'

NORTH

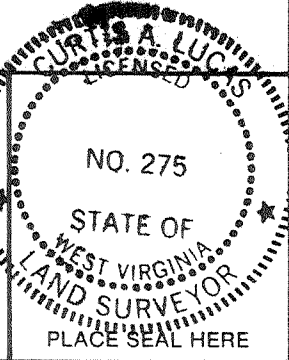
LONGITUDE 80°45'00"



LOCATION	REFERENCE
N29°W	99.3' Syc.
N43°25'E	144.1' Post in R.

FILE NO. \_\_\_\_\_  
 MAP 7 SQS S22 W9  
 SCALE 1" = 800'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION WELL 1767  
 EL. 902

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) Curtis A. Lucas  
 CURTIS A. LUCAS LLS 275



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE AUGUST 21, 19 91  
 FARM COLE/MAXWELL NO. 1  
 API WELL NO.

47 - 017 - 3910  
 STATE COUNTY PERMIT

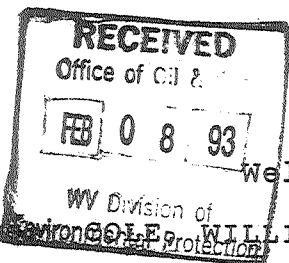
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 835 WATER SHED RUSH RUN  
 DISTRICT COVE 2 COUNTY DODDRIDGE  
 QUADRANGLE AUBURN Holbrook EC  
 SURFACE OWNER WG COLE/JAMES C. MAXWELL ACREAGE 101.6  
 OIL & GAS ROYALTY OWNER WG COLE/JAMES C. MAXWELL LEASE ACREAGE 101.6  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR  
 STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW  
 FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5500  
 WELL OPERATOR INTERSTATE DRILLING INC DESIGNATED AGENT KENNETH L. POTE  
 ADDRESS RT 3, BOX 89-V WESTON WV 26452 ADDRESS RT. 3, BOX 89-V WESTON WV 26452  
 6-6  
 Conings (142)

SEP 23 1991

FORM IV-6 (8-78)

H. T. HALL



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

Well Operator's Report of Well Work

Farm name: COLE Operator: WILLIAM G

Operator Well No.: COLE/MAXWELL

LOCATION: Elevation: 835.00 Quadrangle: AUBURN

District: COVE County: DODDRIDGE  
Latitude: 7275 Feet South of 39 Deg. 7 Min. 30 Sec.  
Longitude 4700 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: INTERSTATE DRILLING, INC.  
ROUTE 3, BOX 89-V  
WESTON, WV 26452-9620

Agent: KENNETH L. POTE

Inspector: MIKE UNDERWOOD  
Permit Issued: 09/19/91  
Well work Commenced: 12/30/92  
Well work Completed: 01/20/93  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary x Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5287'  
Fresh water depths (ft) 48'; 297'

Salt water depths (ft) --

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): --

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11-3/4"	29'		
8-5/8"	1118'	1118'	310 Sks.
4-1/2"		5202.10'	525 Sks.

OPEN FLOW DATA

Producing formation Alexander & Cedar Creek Pay zone depth (ft) 4814'-5060'  
Gas: Initial open flow -- MCF/d Oil: Initial open flow -- Bbl/d  
Final open flow 474 MCF/d Final open flow -- Bbl/d  
Time of open flow between initial and final tests -- Hours  
Static rock Pressure 1120 psig (surface pressure) after 48 Hours

Second producing formation / See Details on Reverse Side Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \* MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

\*Co-mingled with first stage.

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  
Recorded \_\_\_\_\_

By: [Signature]  
Date: February 2, 1993

MAR 6 1993

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

*elw* *F35*

5-Stage Foam Frac

Alexander & Cedar Creek

4814'-5060' w/14 Holes; 5,000# 80/100; 25,000# 20/40; 90 Bbls. SL Fluid

Riley & Benson

4493'-4696' w/15 Holes; 5,000# 80/100; 25,000# 20/40; 90 Bbls. SL Fluid

Bradford

4272'-4306' w/8 Holes; 5,000# 80/100; 20,000# 20/40; 81 Bbls. SL Fluid

Balltown

3814'-3881' w/9 Holes; 5,000# 80/100; 20,000# 20/40; 81 Bbls. SL Fluid

Warren & Speechley

3154'-3359' w/14 Holes; 5,000# 80/100; 30,000# 20/40; 100 Bbls. SL Fluid

DRILLER'S LOG:

SWAMP			0'	38'	
SAND	GRAY	HARD	38'	50'	1/4" STREAM OF WATER @ 48'
SHALE & REDROCK	RED	MEDIUM	50'	70'	
SAND & SHALE	GRAY	MEDIUM	70'	232'	
SAND	GRAY	HARD	232'	510'	1/2" STREAM OF WATER @ 297'
SHALE & REDROCK	GR-RED	MEDIUM	510'	979'	
SAND	WHITE	HARD	979'	986'	
SAND & SHALE	GRAY	MEDIUM	986'	1609'	
SAND	GRAY	HARD	1609'	1640'	
SAND & SHALE	GRAY	MEDIUM	1640'	1835'	
L. LIME	GRAY	HARD	1835'	1930'	
INJUN	GRAY	HARD	1930'	1977'	
SAND & SHALE	GRAY	MEDIUM	1977'	2167'	OIL ODOR @ 2070'
POCONO	GRAY	MEDIUM	2167'	2512'	
GORDON	GRAY	MEDIUM	2512'	3791'	GAS CK. @ 2539' - 8/10-1"W/H2O
SAND & SHALE	GRAY	MED-SOFT	3791'	4515'	GAS CK. @ 4103' - 2/10-1"W/H2O
RILEY	GR-RED	MEDIUM	4515'	4530'	
SAND & SHALE	GRAY	MEDIUM	4530'	4709'	
BENSON	BROWN	MEDIUM	4709'	4719'	
SAND & SHALE	GRAY	MEDIUM	4719'	4825'	
ALEXANDER	BROWN	MEDIUM	4825'	4837'	
SAND & SHALE	GRAY	MEDIUM	4837'	5287'	GAS CK. @ TD - NO SHOW
TOTAL DEPTH			<u>5287'</u>		

DF 436

OFT - 436

Label

017-3910

RECEIVED Issued  
Energy 09/19/91  
SEPT 03 21 Expires 09/19/93  
Page 3 of 8

FORM WW-2B

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

- 1) Well Operator: Interstate Drilling, Inc. 23950 (2) 224
- 2) Operator's Well Number: Cole-Maxwell #1 3) Elevation: 835'
- 4) Well type: (a) Oil  / or Gas  /  
(b) If Gas: Production  / Underground Storage  /  
Deep  / Shallow  /
- 5) Proposed Target Formation(s): Alexander 439
- 6) Proposed Total Depth: 5500 feet
- 7) Approximate fresh water strata depths: 60', 86', 254', 277'
- 8) Approximate salt water depths: 1527'
- 9) Approximate coal seam depths: \_\_\_\_\_
- 10) Does land contain coal seams tributary to active mine? Yes  / No  /
- 11) Proposed Well Work: Drill and Stimulate New Well
- 12) \_\_\_\_\_

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11-3/4"	H-40	42#	30'	0'	
Fresh Water						3805/18-11-3
Coal						3805/18-11-2
Intermediate	8-5/8"	K-55	20#	1100'	1100'	Cement to Surface
Production	4-1/2"	J-55	10.5#	5450'	5450'	±500 Sacks
Tubing						3805/18-11-1
Liners						

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP

12907

22

1) Date: August 26, 1991  
2) Operator's well number  
Cole-Maxwell #1  
3) API Well No: 47 - 017 - 3910  
State - County - Permit

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

SPT 03

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:  
(a) Name Mr. William G. Cole  
Address 1206 Grandview Manor  
Parkersburg, WV 26101  
(b) Name Mr. James C. Maxwell  
Address 878 Warwick Drive  
Sheffield Lake, OH 44054  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Mr. Mike Underwood  
Address Route 2, Box 135  
Salem, WV 26426  
Telephone (304)- 782-1043

5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name \*\*Same as Surface Owners\*\*  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
 Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_ on the above named parties, by:

- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Interstate Drilling, Inc.

By: *[Signature]*

Its: Manager of Operations

Address Route 3, Box 89-V

Weston, WV 26452

Telephone (304) 269-6441

Subscribed and sworn before me this 28th day of August, 1991

*[Signature: Mary A. Straley]*

Notary Public

My commission expires October 31, 1994