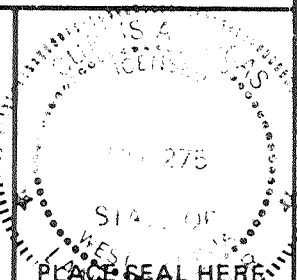


LOCATION REFERENCE
 S24°45'E 118' Pop
 N83°30'E 99' Pop

FILE NO. _____
 MAP 17 SQS S24 W9
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION GALLIEN NO. 1 (47-017-3629) EL 842

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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE JULY 9 1990
 FARM HARVEY NO. 2
 API WELL NO. 47-017-3840
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1111 WATER SHED RUSH RUN
 DISTRICT COVE 2 COUNTY DODDRIDGE
 QUADRANGLE AUBURN
 SURFACE OWNER THOMAS HARVEY ACREAGE 40
 OIL & GAS ROYALTY OWNER THOMAS HARVEY LEASE ACREAGE 40
 LEASE NO. _____
 PROPOSED WORK: DRILL 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 DESIGNATED AGENT KENNETH L. POTE
 ADDRESS RT 3, BOX 89-V WESTON WV 26452 ADDRESS RT 3, BOX 89-V WESTON WV 26452

JUL 20 1990

66 Conings (142)

AUG 22 1990

Permitting
Oil and Gas Section

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

17-Jul-90
API # 47-17-03840

Well Operator's Report of Well Work

Farm name: HARVEY, THOMAS Operator Well No.: HARVEY #2

LOCATION: Elevation: 1111.00 Quadrangle: AUBURN

District: COVE County: DODDRIDGE
Latitude: 5325 Feet South of 39 Deg. 7 Min. 30 Sec.
Longitude 5450 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: 07/17/90
Well work Commenced: 07/31/90
Well work Completed: 08/07/90

Verbal Plugging
Permission granted on: _____
Rotary x Cable _____ Rig
Total Depth (feet) 5500'
Fresh water depths (ft) 86'

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"	16'		
8-5/8"	1206'	1206'	300 Sks.
4-1/2"		5466'	450 Sks.

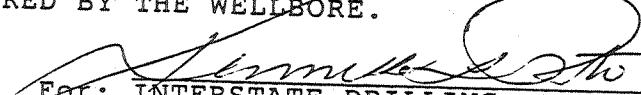
OPEN FLOW DATA

Producing formation Benson, Alexander & Elk Pay zone depth (ft) 5016'-5393'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 350 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 1100 psig (surface pressure) after 4 Hours

Second producing formation Riley, Warren & Speechley
Balltown, Bradford Pay zone depth (ft) 3449'-3685'
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

**Comingled 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.

By: _____
Date: _____

AUG 24 1990

DETAILS OF PERFORATED INTERVALS, FRACTURING, ETC.

Stage 1: Perfs: 5016'-5393' w/16 Holes, 6,000# 80/100, 40,000# 20/40;
149 Bbls./SL Fluid; 528,700 SCF Nitrogen

Stage 2: Perfs: 4189'-4886' w/18 Holes, 6,000# 80/100, 35,000# 20/40;
144 Bbls./SL Fluid; 445,300 SCF Nitrogen

Stage 3: Perfs: 3449'-3685' w/15 Holes, 6,000# 80/100, 40,000# 20/40;
141 Bbls./SL Fluid; 314,800 SCF Nitrogen

RECORD OF REGULAR FORMATIONS AND PRODUCTION

RedRock	Red	Soft	0'	18'	
Sand	White	Hard	18'	114'	Damp @ 66'
					Hit 1/4" Stream H2O @ 86'
RR&Shale	Red/Gray	Soft	114'	121'	
Sand	Gray	Hard	121'	128'	
RR&Shale	Gray/Red	Med.	128'	207'	
Sand&Shale	Gray	Hard	207'	310'	
RR&Shale	Gray/Red	Med.	310'	361'	
Sand	Gray	Hard	361'	374'	
Sd&Shale&RR	Gray/Red	Med.	374'	486'	
Sand	Gray	Hard	486'	528'	
Sand&Shale	Gray	Med.	528'	736'	
Sand	Gray	Hard	736'	743'	
Sand&Shale	Gray	Med.	743'	826'	
RR	Red	Soft	826'	935'	
RR&Sd&Shale	Gray	Med.	935'	1184'	
Sand&Shale	Gray	Hard	1184'	1210'	
Shale	Gray	Med.	1210'	1361'	
Sand&Shale	Gray	Med.	1361'	1463'	
Sand	Gray	Hard	1463'	1495'	
Sand&Shale	Gray	Med.	1495'	1505'	
Sand	Gray	Hard	1505'	1515'	
Sand&Shale	Gray	Med.	1515'	1587'	
Sand	Gray	Hard	1587'	1622'	
Sand&Shale	Gray	Med.	1622'	1937'	
Sand	Gray	Hard	1937'	1967'	Hole Damp @ 1947'
Sand&Shale	Gray	Med.	1967'	1998'	
Sand	Gray	Hard	1998'	2008'	
Sand&Shale	Gray	Med.	2008'	2084'	
Sand	Gray	Hard	2084'	2101'	
L.Lime	Gray	Hard	2101'	2134'	
Sand&Shale	Gray	Med.	2134'	2143'	
B.Lime	Gray	Hard	2143'	2245'	
B. Injun	Gray	Hard	2245'	2291'	
Shale&Sand	Gray	Med.	2291'	2380'	GasCk. @ 2318' No Show
					Oil Odor @ 2380'
Sandy	Gray	Med.	2380'	2500'	GasCk. @ 2443' No Show
					GasCk. @ 2658' No Show
Sand&Shale	Gray	Med.	2500'	3510'	GasCk. @ 2903' No Show
					GasCk. @ 3428' No Show
Sand	Gray	Hard	3510'	3530'	
Sand&Shale	Gray	Med.	3530'	5023'	GasCk. @ 3669' No Show
					GasCk. @ 3919' No Show
					GasCk. @ 4445' No Show
					GasCk. @ 4941' No Show
Sand	Brown	Med.	5023'	5035'	
Sand&Shale	Gray	Med.	5035'	5169'	GasCk. @ 5036' No Show
Sand Alex 7	Gray	Hard	5169'	5231'	
Sand&Shale	Gray	Med.	5231'	5500'	GasCk. @ 5342' No Show
Total Depth			5500'		GasCk. @ 5500'
					4/10 thru 1" w/H2O

10955

47 - 017 - 3840
 Issued 7/17/90
 Expires 7/12/92
 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) Operator's Well Number: Harvey #2 3) Elevation: 1111'
- 4) Well type: (a) Oil / or Gas /

 (b) If Gas: Production / Underground Storage /

 Deep Shallow
- 5) Proposed Target Formation(s): Alexander
- 6) Proposed Total Depth: 5500 feet
- 7) Approximate fresh water strata depths: 150'; 420', 189', 302', 323'
- 8) Approximate salt water depths: (1753' - ?)
- 9) Approximate coal seam depths: No Coal
- 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#	20'	0'	
Fresh Water						
Coal						
Intermediate	8-5/8"	K-55	20#	1000'	1000'	Cement to Surface
Production	4-1/2"	J-55	10.5#		5400'	± 450 Sk.
Tubing						
Liners						

38CSR18-11.3
 38CSR18-11.2
 38CSR18-11.1

PACKERS : Kind _____
 Sizes _____
 Depths set _____

REC-11
 JUL 1 1990

For Division of Oil and Gas Use Only

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

Plat _____

RECEIVED
JUL 17 1990

Page 1 of 8
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: July 12, 1990
Operator's well number
Harvey #2
API Well No: 47 - 017 - 3840
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name Thomas Harvey
Address Rt. 1, Box 30-A
Bridgeport, WV 26330
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name **No Coal**
Address _____
 - (b) Coal Owner(s) with Declaration
Name _____
Address _____
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector Mike Underwood
Address Rt. 2, Box 135
Salem, WV 26426
Telephone (304)- 782-1043

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

X 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:

- X 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: Secretary-Treasurer/Manager of Operations

Address Rt. 3, Box 89-V

Weston, WV 26452

Telephone 304-269-6441

Subscribed and sworn before me this 12th day of July, 1990

[Signature] Notary Public
My commission expires October 31, 1994