

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400 FT.  
 MINIMUM DEGREE OF ACCURACY 1 IN 1500  
 PROVEN SOURCE OF ELEVATION USGS BM #H-279  
 ELEV. = 1956.72

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) *William D. Swank*  
 R.P.E. 5953 L.L.S. 500

WILLIAM D. SWANK  
 REGISTERED SURVEYOR  
 No. 0095  
 STATE OF WEST VIRGINIA  
 PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE OCT. 1988

OPERATOR'S WELL NO. HIGGINS #1

API WELL NO. 47 083 1078P

STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1924.3 WATERSHED TYGART VALLEY RIVER  
 DISTRICT BEVERLY COUNTY RANDOLPH  
 QUADRANGLE ELKINS, W. VA.

SURFACE OWNER ERNEST HIGGINS ACREAGE 100

OIL & GAS ROYALTY OWNER ERNEST HIGGINS LEASE ACREAGE 100  
 LEASE NO. HIGGINS #1

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 \_\_\_\_\_ ESTIMATED DEPTH 6000'

WELL OPERATOR HAROLD C. OGDEN DESIGNATED AGENT HAROLD C. OGDEN

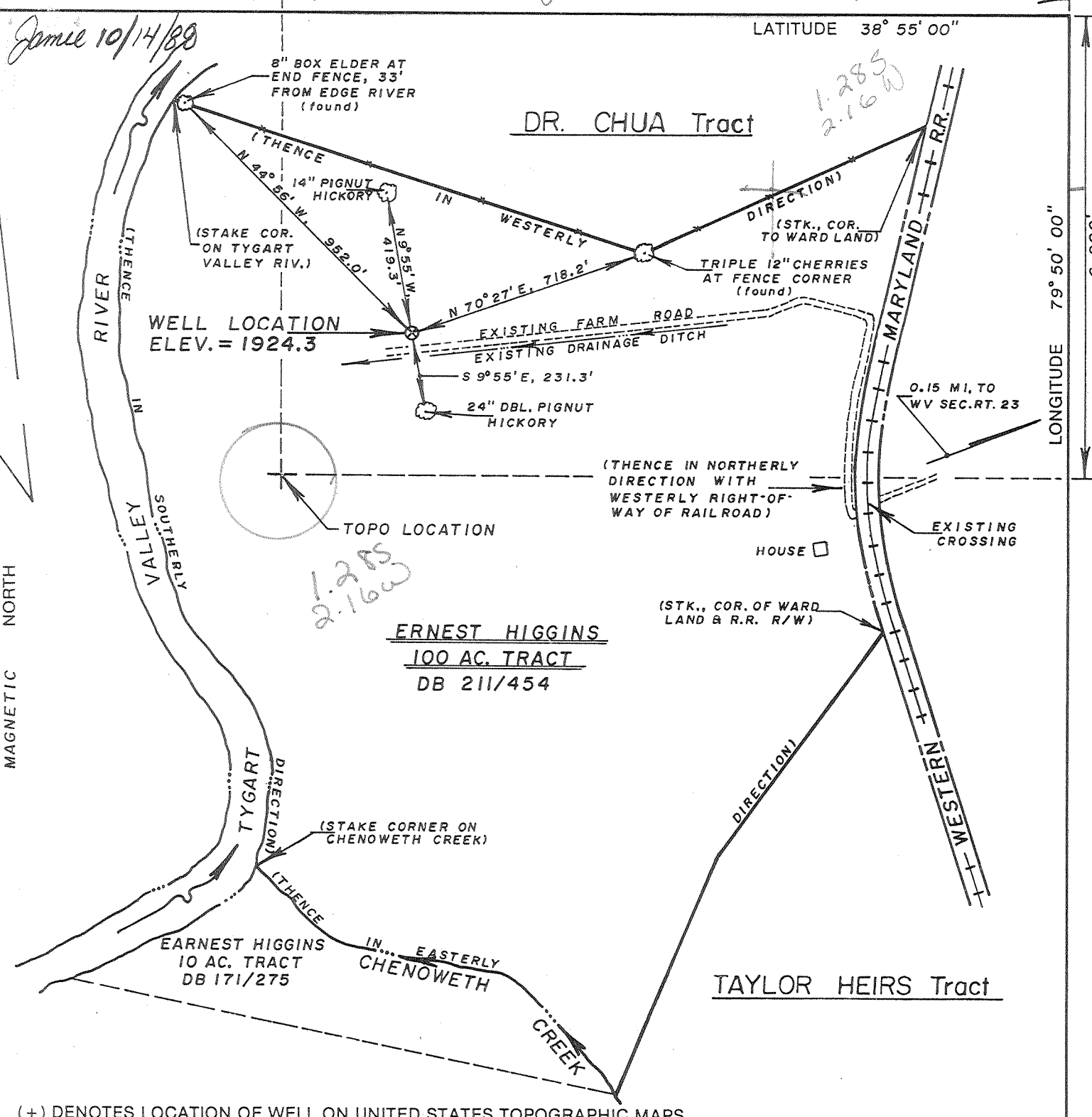
ADDRESS P.O. BOX 8, ELKINS, WV 26241 ADDRESS P.O. BOX 8, ELKINS, WV 26241

FORM IV-6 (8-78) H.T. HALL

RANDOLPH COUNTY NAME PERMIT 1078P

DEC 12 1988

DEEP WELL 5-c (b) attempt to extend Perm 1055



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400 FT.  
 MINIMUM DEGREE OF ACCURACY 1 IN 1500  
 PROVEN SOURCE OF ELEVATION USGS BM #H-279  
 ELEV. = 1956.72

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(SIGNED) William D. Xuech  
 R.P.E. 5953 L.L.S. 500

WILLIAM D. SWAN  
 REGISTERED PROFESSIONAL SURVEYOR  
 NO. 2081  
 PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE OCT. 24, 1988

OPERATOR'S WELL NO. HIGGINS #1  
 API WELL NO. 47 083 1078  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP X SHALLOW \_\_\_

LOCATION: ELEVATION 1924.3 WATERSHED TYGART VALLEY RIVER  
 DISTRICT BEVERLY COUNTY RANDOLPH  
 QUADRANGLE ELKINS, W. VA. 335 040 5 ELKINS

SURFACE OWNER ERNEST HIGGINS ACREAGE 100  
 OIL & GAS ROYALTY OWNER ERNEST HIGGINS LEASE ACREAGE 100  
 LEASE NO. HIGGINS #1

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 \_\_\_\_\_ ESTIMATED DEPTH 6000'

WELL OPERATOR HAROLD C. OGDEN DESIGNATED AGENT HAROLD C. OGDEN  
 ADDRESS P.O. BOX 8, ELKINS, WV 26241 ADDRESS P.O. BOX 8, ELKINS, WV 26241

4463

UCT 24 1988

RANDOLPH COUNTY NAME  
 PERMIT

FORM IV-6 (8-78)  
 H.T. HALL

5005 LTD

5018-DTP

barely top Tusc.



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DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

State of West Virginia

DEPARTMENT OF ENERGY  
Oil and Gas Division

Date 11-20-88  
Operator's  
Well No. Higgins # 1  
Farm Higgins # 1  
API No. 47 - 083 - 1078P

WELL OPERATOR'S REPORT  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

083

WELL TYPE: Oil      / Gas x / Liquid Injection      / Waste Disposal      /  
(If "Gas," Production      / Underground Storage      / Deep      / Shallow      /)

LOCATION: Elevation: 1924.3 Watershed Tygart Valley River  
District: Beverly County Randolph Quadrangle Elkins, WV

COMPANY Harold C. Oaden, Inc.

ADDRESS P.O. Box 8 Elkins, WV 26241

DESIGNATED AGENT Harold C. Oaden

ADDRESS P.O. Box 8 Elkins, WV

SURFACE OWNER Earnest Higgins

ADDRESS Elkins, WV 26241

MINERAL RIGHTS OWNER Earnest Higgins

ADDRESS Elkins, WV 26241

OIL AND GAS INSPECTOR FOR THIS WORK Phil

Tracy ADDRESS Montrose, WV

PERMIT ISSUED 10/11/88

DRILLING COMMENCED 10/12/88

DRILLING COMPLETED 11/15/88

IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON     

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size <del>20</del> 16 Cond.	<u>20 ft.</u>	<u>0</u>	
<del>13-3/8</del>	<u>200ft.</u>	<u>200</u>	<u>Surf</u>
<u>9 5/8</u>			
<u>8 5/8</u>	<u>1783ft.</u>	<u>1783</u>	<u>Surf</u>
<u>7</u>			
<u>5 1/2</u>			
<u>4 1/2</u>			
<u>3</u>			
<u>2</u>			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Sand Depth 1950 feet

Depth of completed well 5283 feet Rotary x / Cable Tools     

Water strata depth: Fresh 105 feet; Salt 1785 feet

Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation None Pay zone depth      feet

Gas: Initial open flow None Mcf/d Oil: Initial open flow      Bbl/d

Final open flow None Mcf/d Oil: Final open flow      Bbl/d

Time of open flow between initial and final tests      hours

Static rock pressure None psig (surface measurement) after      hours shut in

(If applicable due to multiple completion--)

Second producing formation      Pay zone depth      feet

Gas: Initial open flow      Mcf/d Oil: Initial open flow      Bbl/d

Final open flow      Mcf/d Oil: Final open flow      Bbl/d

Time of open flow between initial and final tests      hours

Static rock pressure      psig (surface measurement) after      hours shut in

(Continue on reverse side)

0000 2000

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

083  
1098

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Clay	Creek Rock		0	20	
Devonianshale	Brown	Soft	20	1800	
Chert			1800	1895	Salt Water 1785
Marcelleshale	Black	Soft	1895	1950	
Oransky sand	White	Hard	1950	2060	
Lime	Black	Hard	2060	5084	
Dark Lime		Hard	5084	5280	

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DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Harold C. Oaden, Inc.  
Well Operator  
By: Harold C. Oaden  
Date: 11/20/88

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."  
7514

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

- 1) Well Operator: <sup>4463</sup> Harold C. Ogden 35330, 1, 335
- 2) Operator's Well Number: Higgins # 1 3) Elevation: 1924.3
- 4) Well type: (a) Oil \_\_\_ / or Gas x /  
 (b) If Gas: Production x / Underground Storage \_\_\_  
 Deep \_\_\_ / Unknown Shallow \_\_\_
- 5) Proposed Target Formation(s): 6000 Test Well 475?
- 6) Proposed Total Depth: Test well feet 6000 or more.
- 7) Approximate fresh water strata depths: 80 Ft.
- 8) Approximate salt water depths: 1625
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No x /
- 11) Proposed Well Work: Drill & Stimulate New Well.
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor	16			20'		
Fresh Water	1 1/2		32	200	200'	CTS
Coal						
Intermediate	8 5/8		20-24	1700	1700'	38CSR18-11.3
Production	4 3/4		10.50	6000'	6000'	38CSR18-11.1
Tubing						
Liners						

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

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY

Fee(s) paid: 1945 Well Work Permit 34 Reclamation Fund 34 WPCP  
 Plat 34 WW-9 | 34 WW-2B | 34 Bond 10 Singlewell Agent

(Type)

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

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Date: 10/11/88  
Operator's well number  
Higgins # 1  
API Well No: 47 - RANDOLPH - 1078  
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 EARNEST HIGGINS  
Address SULLIVAN'S CROSSING  
ELKINS, W. VA.  
(b) Name 26241  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector \_\_\_\_\_  
Address \_\_\_\_\_  
Telephone (304)- \_\_\_\_\_

5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name EARNEST HIGGINS  
Address SULLIVAN'S CROSSING  
ELKINS, W. VA.  
Name 26241  
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 HAROLD C. OGDEN, INC  
By: HAROLD C. OGDEN  
Its: PRESIDENT  
Address P.O. BOX 8, ELKINS, W. VA. 26241

Telephone 1-304-636-5638

Subscribed and sworn before me this 11 day of October, 1988

Letta G. Price  
My commission expires June 27, 1994 Notary Public

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVITE SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: HIGGINS, EARNEST Operator Well No.: HIGGINS #1

LOCATION: Elevation: 1924.30 Quadrangle: ELKINS  
District: BEVERLY County: RANDOLPH  
Latitude: 6800 Feet South of 38 Deg. 55 Min. Sec.  
Longitude 11500 Feet West of 79 Deg. 50 Min. Sec.

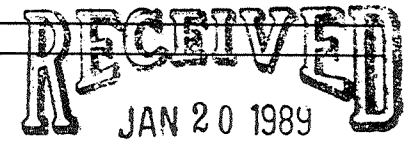
Well Type: OIL \_\_\_\_\_ GAS X

Company: Harold C. Ogden, Inc.  
P.O. Box 8  
Elkins, WV 26241

Coal Operator None  
or Owner \_\_\_\_\_

Agent: Harold C. Ogden  
Inspector: Phil Tracy  
Permit Issued: 12/09/88

Coal Operator None  
or Owner \_\_\_\_\_



AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Randolph ss:

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Harold C. Ogden, Inc. and Harold C. Ogden first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Harold C. Ogden, Inc., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 15 day of Nov., 1988, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	0	50		200ft. 13in.
Gell	50	1800		783 of 8 5/8
Cement	1800	2050		
Gell	2050	5050		
Cement	5050	5283		

Description of monument: 8 5/8 3 ft. above surface with api No. Attached

and that the work of plugging and filling said well was completed on the 15 day of Nov., 1988.

And further deponents saith not.

Harold C. Ogden

Sworn and subscribe before me this 16 day of January, 1989  
My commission expires: June 24, 1994

John D. Price  
Notary Public