



1) Date: May 15, 19 85
 2) Operator's Well No. Heitman #1
 3) API Well No. 47 033-3224

State West Virginia County Harrison Permit 3224
RECEIVED
 JUN 17 1985

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

OIL & GAS DIVISION
 DEPT. OF MINES

- 4) WELL TYPE: A Oil X / Gas X /
 B (If "Gas", Production X / Underground storage /
 5) LOCATION: Elevation: 1210 Watershed: Little Rock Camp
 District: Sardis 7 County: Harrison Quadrangle: Wallace 7.5' 65-4
 6) WELL OPERATOR Ensource Inc. 7) DESIGNATED AGENT Michael W. Nugen
 Address P. O. Drawer 1738 Address P. O. Drawer 1738
Clarksburg, WV 26301 16100 Clarksburg, WV 26301
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Stephen Casey Name The Coastal Corporation
 Address Rt #2 Box 232-D Address 3501 Emerson Ave., #4B
Jane Lew, WV 26378 Parkersburg, WV 26104
 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate X /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify)
 11) GEOLOGICAL TARGET FORMATION, 5th Sand
 12) Estimated depth of completed well, 2990 feet
 13) Approximate trata depths: Fresh, 50, 240 feet; salt, 1200 feet.
 14) Approximate coal seam depths: 245, 670 Is coal being mined in the area? Yes / No X /
 15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Depth in well		
Conductor	11 3/4	H-40	42	X		<u>100'</u>	<u>100'</u>		<u>CTS NEAT</u> Kinds
Fresh water	8 5/8	ERW	23	X		<u>1250</u>	<u>1250</u>	<u>400 sks</u>	<u>CTS NEAT</u>
Coal	8 5/8	ERW	23	X		<u>1250</u>	<u>1250</u>	<u>400 sks</u>	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X		<u>2900</u>	<u>2900</u>	<u>225 sks</u>	Depths set
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-033-3224 Date July 3 19 85

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires July 3, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>601</u>	<u>ALB</u>	<u>MW</u>	<u>MW</u>	<u>1155-</u>

Margaret J. Hass
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File



RECEIVED
JUN 1 1982

STATE OF WEST VIRGINIA

OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) WELL LOCATION: District: _____ County: _____ Elevation: _____

2) WELL OPERATOR: Name: _____ Address: _____

3) OIL & GAS INSPECTOR TO BE NOTIFIED: Name: _____ Address: _____

4) PROPOSED WELL WORK: Drill: / Re-drill: _____ / Plug oil field formation: _____ / Other physical change in well (specify): _____

5) GEOLOGICAL TARGET FORMATION: _____

6) Estimated depth of completed well: _____

7) Approximate true depth: _____

8) Approximate coal seam depth: _____

9) CASING AND TUBING PROGRAM: _____

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason:	Agent:	Date:	Casing:	Tool:

I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)

IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.

Grantee, lessee, etc.

Royalty

Book Page

INFORMATION ALREADY ON FILE - SEE PERMIT #2873

1) Date: March 15, 1985
2) Operator's
Well No. Heitman #1
3) API Well No. 47 033 - 3224
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OFFICE OF OIL & GAS

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

5(i) COAL OPERATOR Not Operated
Address _____

(i) Name Kelly S. Heitman
Address Rt. #1
Wallace, WV 26448

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____

(ii) Name _____
Address _____

Name _____
Address _____

(iii) Name _____
Address _____

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

Kelly S. Heitman

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) EXTRACTION RIGHTS

Check and provide one of the following:

- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
- The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by
Michael W. Nugen

WELL OPERATOR Ensource Inc.
By Michael W. Nugen
Its District Manager
Address P. O. Drawer 1738
Clarksburg, WV 26301
Telephone (304) 624-9653

this 5th day of May, 1985.
My commission expires March 23, 1993.

Wazyl S. Carter
Notary Public, Harrison County,
State of West Virginia

RECEIVED
JUN 17 1985
DIVISION
VES



DATE April 24, 1985

WELL NO. Heitman #1

State of West Virginia API NO. 47-033-3224

Department of Mines
Oil and Gas Division

Rec'd. (WFSCD)
APR 24 1985

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Ensource Inc. DESIGNATED AGENT Mike Nugen
Address P. O. Drawer 1738, Clarksburg, WV 26301 Address P. O. Drawer 1738, Clarksburg, WV 26301
Telephone (304) 624-9653 Telephone (304) 624-9653

LANDOWNER Kelly S. Heitman SOIL CONS. DISTRICT West Fork
Revegetation to be carried out by Contractor (Agent)

This plan has been reviewed by West Fork SCD. All corrections
and additions become a part of this plan: 5/9/85 (Date)
Kenneth E. Light (SCD Agent)

RECEIVED
JUN 17 1985
OIL & GAS DIVISION
DEPT. OF MINES

ACCESS ROAD

LOCATION

Structure Culvert (A)
(Accord. to O&G Manual) (at natural drains)
Spacing As required (15")
with riprapped outlet
Page Ref. Manual 2-7

Structure Diversion Ditch (1)
Material Earthen
Page Ref. Manual 2-13

Structure Open Ditch (B)
(Inside road cuts)
Spacing Along side of access road
Page Ref. Manual 2-12

Structure Open Ditch (2)
Material Earthen
Page Ref. Manual 2-12

Structure Cross Drains (C)
Spacing 125' Apart
with riprapped outlet
Page Ref. Manual 2-4

Structure Rip Rap (3)
Material Stone
Page Ref. Manual N/A

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I

Lime As required by PH test Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch Hay 2 Tons/acre
Seed* Kent 31 Tall Fescue 35 lbs/acre
Ladino Clover 5 lbs/acre
lbs/acre

Treatment Area II

Lime As required by PH test Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch Hay 2 Tons/acre
Seed* Kent 31 Tall Fescue 35 lbs/acre
Ladino Clover 5 lbs/acre
lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

PLAN PREPARED BY Michael W. Nugen

ADDRESS P. O. Drawer 1738
Clarksburg, WV 26301

PHONE NO. (304) 624-9653

NOTES: Please request landowner's cooperation to protect new seeding for one growing season. Attach separate sheets as necessary for comments.

AFFIDAVIT OF PERSONAL SERVICE ON SURFACE OWNER

STATE OF West Virginia,
COUNTY OF Harrison :

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of--

- (1) Notice on Form IV-2(A) X / Form IV-3(A) / Form IV-4(A) /
- (2) Application on Form IV-2(B) X / Form IV-3(B) / Form IV-4(B) /
- (3) Plat showing the well location on Form IV-6, and
- (4) Construction and Reclamation Plan on Form IV-9 (unless the application is to plug a well)

--all with respect to operator's Well No. Heitman #1 located in Sardis District, Harrison County, West Virginia, upon the person or organization named--

Kelly S. Heitman

--by delivering the same in Harrison County, State of West Virginia on the 15th day of May, 1985 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

[X] Handing it to him / her X / or, because he / she / refused to take it when I offered it, by leaving it in his / her / presence.

[X] Handing it to a member of his or her family above the age of 16 years named _____ who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership:

[] Handing it to _____, a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

For a limited partnership:

[] Handing it to the general partner, named _____, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation:

[] Handing it to the corporation's employee / officer / director / attorney in fact / named _____.

Michael W. Nugen
(Signature of person executing service)

Taken, subscribed and sworn before me this 15th day of May, 1985.
My commission expires March 23, 1993

Daryl L. Corder
Notary Public

(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)

RECEIVED
JUN 17 1985
OIL & GAS DIVISION
DEPT. OF MINES

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

1st Stage - Perf from 2810-2588 w/23 shots. Fraced with 75 Q foam, 30,000# 20/40 sand.

2nd Stage - Perf from 2548-2501 w/13 shots. Fraced with H₂O, 7500# 20/40 sand.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Redrock - Red (Soft)			0	14	
Coal - Black (Soft)			14	17	
Shale - Gray (Med)			17	25	
Sand - Gray (Hard)			25	70	Wet @ 25'
Sand & Shale - Gray (Med)			70	85	Wet @ 90'
Sand - Gray (Hard)			85	114	
Coal - Black (Soft)			114	116	
Sand - Gray (Hard)			116	175	
Shale - Gray (Soft)			175	190	
Sand - Gray (Hard)			190	227	
Shale - Gray (Soft)			227	318	
Sand - Gray (Hard)			318	458	
Shale - Gray (Soft)			458	585	
Coal - Black (Soft)			585	591	
Shale - Gray (Soft)			591	770	
Redrock - Red (Soft)			770	780	
Shale - Gray (Soft)			780	827	
Redrock - Red (Soft)			827	838	
Shale - Gray (Soft)			838	845	
Redrock - Red (Soft)			845	880	
Sand & Shale - Gray (Soft)			880	1360	
Sand & Shale - Gray (Med)			1360	1467	
Sand - Gray (Hard)			1467	1514	
Sand & Shale - Gray (Med)			1514	1830	
Little Lime & Shale - Gray (Med)			1830	1880	
Pencil Cave - Gray (Soft)			1880	1883	
B. Lime - Lt. Gray (Hard)			1883	2017	
Big Injun - Gray (Soft)			2017	2067	
Sand & Shale - Gray (Soft)			2067	2275	
Sand - Gray/White (Hard)			2275	2352	
Sand & Shale - Gray (Soft)			2352	2366	
Sand & Shale - Gray (Med. Soft)			2366	2469	
Sand & Shale - Gray (Med. Hard)			2469	2497	
Shale - Gray (Med. Soft)			2497	2591	Gas Ck 2545' - A lot
Sand - Lt. Grt (Med. Hard)			2591	2647	V Gas 2506' 25/10 7"
Shale - Gray - (Soft)			2647	2709	

(continued)

(Attach separate sheets as necessary)

Ensource Inc.

Well Operator

By: Michael W. Augen

Date: August 13, 1985

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."



IV-35
(Rev 8-81)

Date August 13, 1985
Operator's Well No. _____
Farm Heitman #1
API No. 47 - 033 - 3224

State of West Virginia
Department of Mines
Oil and Gas Division

RECEIVED
SEP 05 1985

WELL OPERATOR'S REPORT
OF
DRILLING, FRACURING AND/OR STIMULATING, OR PHYSICAL CHANGE
DIVISION OF OIL & GAS
DEPARTMENT OF MINES

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

LOCATION: Elevation: 1210' Watershed Little Rock Camp
District: Sardis County Harrison Quadrangle Wallace 7.5'

COMPANY Ensource Inc.
ADDRESS P. O. Drawer 1738, Clarksburg, WV 26301
DESIGNATED AGENT Michael W. Nugen
ADDRESS Same
SURFACE OWNER Kelly S. Heitman
ADDRESS Rt. 1, Wallace, WV 26448
MINERAL RIGHTS OWNER Roy B. Smith, Et al
ADDRESS Rt. 1, Box 175, Wallace, WV 26448
OIL AND GAS INSPECTOR FOR THIS WORK Stephen Casey
ADDRESS Rt #2, Box 232-D Jane Lew, WV 26378
PERMIT ISSUED July 3, 1985
DRILLING COMMENCED July 9, 1985
DRILLING COMPLETED July 12, 1985

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1313.65	1313.65	350 sks
7			
5 1/2			
4 1/2	2849	2849	175 sks
3			
2 1/2	-----	-----	
Liners used			

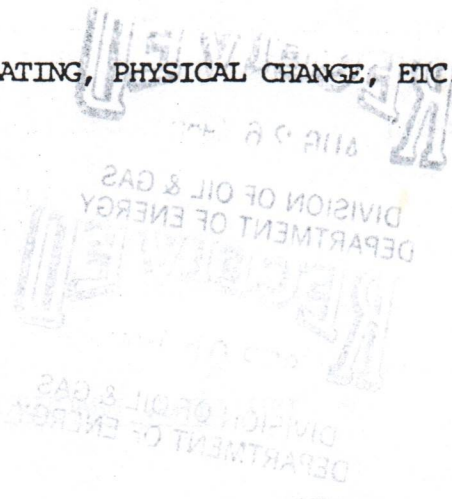
GEOLOGICAL TARGET FORMATION 5th Sand Depth 2990 feet
Depth of completed well 2905 feet Rotary / Cable Tools _____
Water strata depth: Fresh 50, 240 feet; Salt 1200 feet
Coal seam depths: 240, 670 Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation 5th Sand, 50', Gordon Pay zone depth 2501-2810 feet
Gas: Initial open flow TSTM Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 1400 Mcf/d Final open flow 3 Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 750 psig (surface measurement) after 24 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)

HARR 3224

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



WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Continued -					
Sand - Lt. Gray		(Hard)	2709	2720	T.D.
Shale -		(Soft)	2720	2755	
Shale -		(Soft)	2755	2905	
<u>Geological Formations:</u>					
5th Sand			2805	2814	
50 ft.			2540	2554	
Gordon			2730	2740	
30 ft.			2705	2718	
Big Lime			1883	2017	
Injun			2017	2067	

HARR 3224

(Attach separate sheets as necessary)

Ensource Inc.
Well Operator

By: Michael W. Nugen Michael W. Nugen

Date: August 13, 1985

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."



IV-35
(Rev 8-81)

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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SEP 05 1985

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
Department of Mines
Oil and Gas Division

Date _____
Operator's _____
Well No. _____
Farm _____
API No. _____

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: _____ Watershed _____
District: _____ County _____ Quadrangle _____

COMPANY _____

ADDRESS _____

DESIGNATED AGENT _____

ADDRESS _____

SURFACE OWNER _____

ADDRESS _____

MINERAL RIGHTS OWNER _____

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK _____

ADDRESS _____

PERMIT ISSUED _____

DRILLING COMMENCED _____

DRILLING COMPLETED _____

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			
20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION _____ Depth _____ feet

Depth of completed well _____ feet Rotary ___ / Cable Tools _____

Water strata depth: Fresh _____ feet; Salt _____ feet

Coal seam depths: _____ Is coal being mined in the area? _____

OPEN FLOW DATA

Producing formation _____ Pay zone depth _____ feet

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 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)

Date: September 3, 19 85

Operator's Well No. Heitman #1

API Well No. 47 - 033 - 3224
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

RECEIVED
SEP 05 1985

WELL OPERATOR'S REPORT
OF
INITIAL GAS-OIL RATIO TEST

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
Michael W. Nugen

WELL OPERATOR Ensource Inc.
Address P. O. Drawer 1738
Clarksburg, WV 26301

DESIGNATED AGENT Michael W. Nugen
Address P. O. Drawer 1738
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: 5th Sand Depth 2905 feet
Perforation Interval 2501-2810 feet

GUIDELINES FOR TESTING:

- 1- A minimum of gas vented or flared
- 2- A 24 hour preflow into pipelines or tanks
- 3- Uniform producing rate during the 24 hour test per test period
- 4- Measurement standards as for Form IV-39, "Report of Annual Production" (see Regulation 21.01)
- 5- Separate Form IV-36 for each producing formation in a multiple completion

TEST DATA				
START OF TEST-DATE 8/09/85	TIME 11:00	END OF TEST-DATE 8/10/85	TIME 11:00	DURATION OF TEST 24 hrs.
TUBING PRESSURE ---	CASING PRESSURE 760#	SEPARATOR PRESSURE 50#	SEPARATOR TEMPERATURE 60°F	
OIL PRODUCTION DURING TEST 8 bbls.	GAS PRODUCTION DURING TEST 74 Mcf		WATER PRODUCTION DURING TEST & SALINITY 0 bbls.	
OIL GRAVITY 52	PRODUCING METHOD (Flowing, pumping, gas lift, etc.) Gas Lift			

MEASUREMENT METHOD			GAS PRODUCTION		
FLANGE IAP <input checked="" type="checkbox"/>	PIPE IAP <input type="checkbox"/>	L-10 <input type="checkbox"/>	POSITIVE CHOKE CRITICAL FLOW PROVER <input checked="" type="checkbox"/>		
ORIFICE DIAMETER 1/2"	PIPE DIAMETER (INSIDE DIAM.)		NOMINAL CHOKE SIZE - IN. 12/64"		
DIFFERENTIAL PRESSURE RANGE 0 - 100	MAX. STATIC PRESSURE RANGE 0 - 500		PROVER & ORIFICE DIA. - IN.		
DIFFERENTIAL 35"	STATIC 50#		GAS GRAVITY (Air-1.0) MEASURED ESTIMATED .65		
GAS GRAVITY (Air-1.0) .65	FLOWING TEMPERATURE 60°F		GAS TEMPERATURE 60 °F		
24 HOUR COEFFICIENT.			24 HOUR COEFFICIENT		
			PRESSURE - psia		

TEST RESULTS			
DAILY OIL 8 bbls.	DAILY WATER 0 bbls.	DAILY GAS 74 Mcf.	GAS-OIL RATIO 9.25 SCF/STB

Ensource Inc.
Well Operator
By: Michael W. Nugen
Its: District Manager

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

RECEIVED
JUL 15 1985

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 33-3224

Oil or Gas Well _____
(KIND)

Company Ensource
 Address _____
 Farm Heitman
 Well No. 1
 District Sardis County Hancock
 Drilling commenced 7-8-85
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water 25 feet 90 feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 3/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT 14 FEET 36 INCHES
114 FEET 24 INCHES 585 FEET 72 INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names Coastal 1

Remarks: 8 5/8 1313' 350 sq. Halliburton

7-10-85
DATE

Steve Casey
DISTRICT WELL INSPECTOR



4 OCT 85 11:03

RECL. - CHAS.

State of West Virginia

Department of Energy

Oil and Gas Division

Charleston 25311

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
September 10, 1985

COMPANY Ensource, Inc.

PERMIT NO 033-3224

P. O. Drawer 1738

FARM & WELL NO Kelly Heitman #1

Clarksburg, West Virginia 26301

DIST. & COUNTY Sardis/Harrison

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.04	Prepared before Drilling to Prevent Waste	<input type="checkbox"/>	<input type="checkbox"/>
25.03	High-Pressure Drilling	<input type="checkbox"/>	<input type="checkbox"/>
16.01	Required Permits at Wellsite	<input type="checkbox"/>	<input type="checkbox"/>
15.03	Adequate Fresh Water Casing	<input type="checkbox"/>	<input type="checkbox"/>
15.02	Adequate Coal Casing	<input type="checkbox"/>	<input type="checkbox"/>
15.01	Adequate Production Casing	<input type="checkbox"/>	<input type="checkbox"/>
15.04	Adequate Cement Strength	<input type="checkbox"/>	<input type="checkbox"/>
15.05	Cement Type	<input type="checkbox"/>	<input type="checkbox"/>
23.02	Maintained Access Roads	<input type="checkbox"/>	<input type="checkbox"/>
25.01	Necessary Equipment to Prevent Waste	<input type="checkbox"/>	<input type="checkbox"/>
23.04	Reclaimed Drilling Pits	<input type="checkbox"/>	<input type="checkbox"/>
23.05	No Surface or Underground Pollution	<input type="checkbox"/>	<input type="checkbox"/>
23.07	Requirements for Production & Gathering Pipelines	<input type="checkbox"/>	<input type="checkbox"/>
16.01	Well Records on Site	<input type="checkbox"/>	<input type="checkbox"/>
16.02	Well Records Filed	<input type="checkbox"/>	<input type="checkbox"/>
7.05	Identification Markings	<input type="checkbox"/>	<input type="checkbox"/>

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED Stephens-Cassey
DATE 10-2-85

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

Director, Division of Oil & Gas

DATE



State of West Virginia
Department of Energy
Oil and Gas Division
Charleston 25311
FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

COMPANY _____

PERMIT NO _____
FARM & WELL NO _____
DIST. & COUNTY _____

RULE	DESCRIPTION	IN COMPLIANCE	
		Yes	No
23.06	Notification Prior to Starting Work	_____	_____
16.01	Required Permits at Wellsite	_____	_____
17.02	Method of Plugging	_____	_____
18.01	Materials used in Plugging	_____	_____
23.02	Maintained Access Roads	_____	_____
25.01	Necessary Equipment to Prevent Waste	_____	_____
23.04	Reclaimed Drilling Pits	_____	_____
23.05	No Surface or Underground Pollution	_____	_____
17.06	Statutory Affidavit	_____	_____
7.06	Parties Responsible	_____	_____
7.05	Identification Markings	_____	_____

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED _____

DATE _____

Your Affidavit of Plugging was received and reclamation requirements approved.
The well designated by the above permit number has been released under your bond.

Director- Division of Oil & Gas

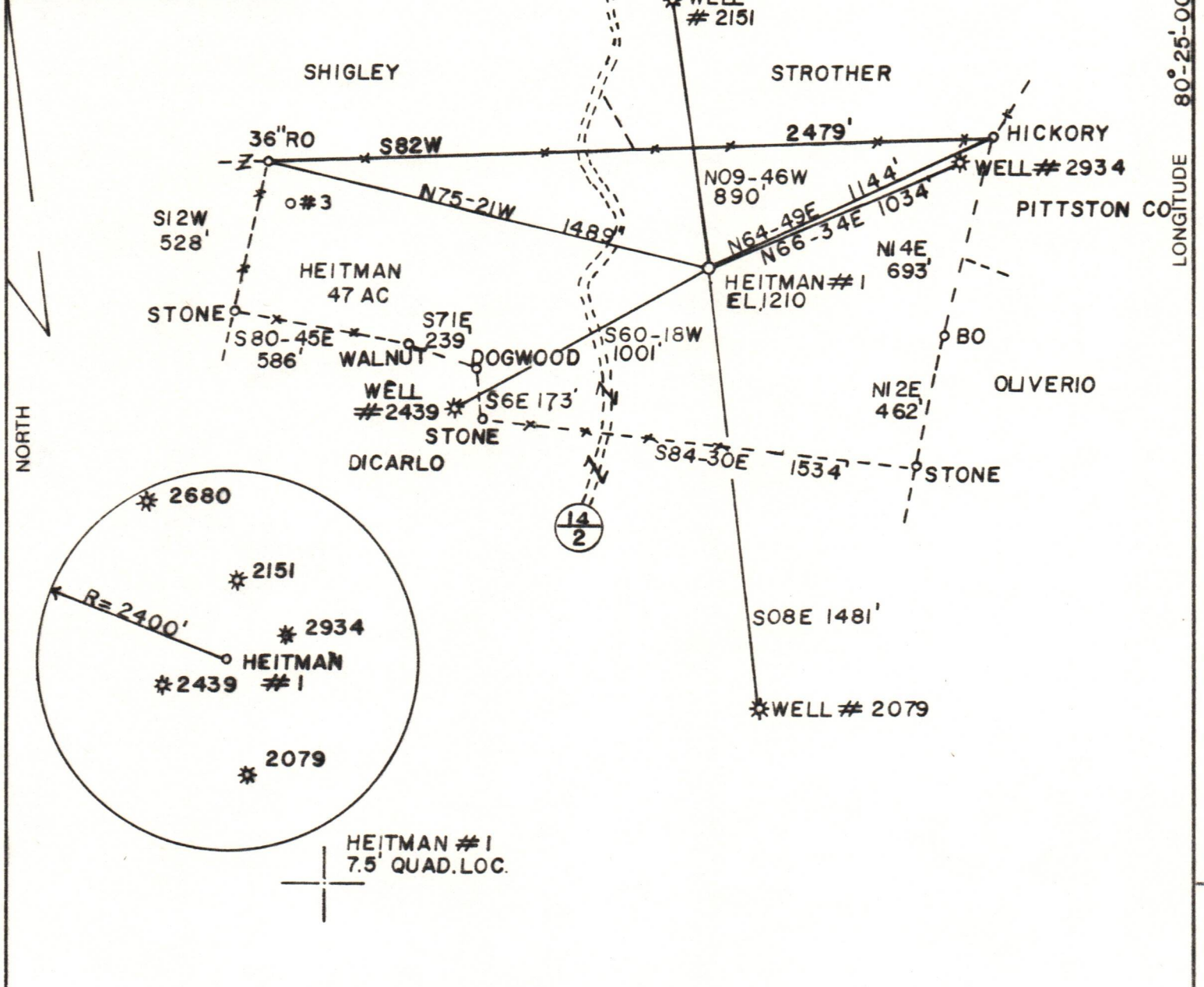
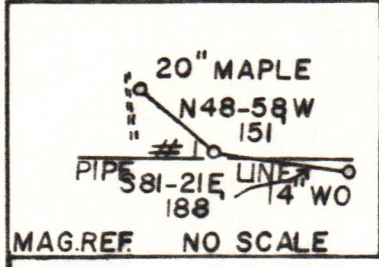
DATE _____

102 7-1-85

11,500'

LATITUDE 39°25'00"

LONGITUDE 80°25'00"



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

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION 1019 INT 14814/1

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) Burl Jones
R.P.E. 6988 L.L.S. _____



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE APRIL 25, 19 85
OPERATOR'S WELL NO. HEITMAN #1
API WELL NO. _____

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

LOCATION: ELEVATION 1210 WATER SHED LITTLE ROCK CAMP RUN
DISTRICT SARDIS COUNTY HARRISON
QUADRANGLE WALLACE

SURFACE OWNER KELLY S. HEITMAN ACREAGE 47
OIL & GAS ROYALTY OWNER ROY B SMITH ET AL LEASE ACREAGE 47
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 FIFTH SAND ESTIMATED DEPTH 3100
WELL OPERATOR ENSOURCE INC DESIGNATED AGENT MIKE NUGEN
ADDRESS PO DRAWER 1738 ADDRESS PO DRAWER 1738
CLARKSBURG, WV 26301 CLARKSBURG, WV 26301

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

COUNTY NAME PERMIT