



1) Date: JAN. 20, 19 84
 2) Operator's Well No. I. B. Jett #3
 3) API Well No. 47 - 033 - 2979
 State County Permit

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

APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow /)
- 5) LOCATION: Elevation: 1318 Watershed: West Fork River
 District: Clay County: HARRISON Quadrangle: CLARKSBURG
- 6) WELL OPERATOR Hydrocarbon Energies 7) DESIGNATED AGENT ALVIN SORCAN
 Address P.O. DRAWER 976 Address P.O. DRAWER 976
Buckhannon W.V.A. 26201 Buckhannon W.V. 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Stephen Casey (504) Name _____
 Address Rt. 2 Box 232-D Address _____
JANE LEW W.V. 26378
- 10) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate /
 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, 2900 feet
- 13) Approximate trata depths: Fresh, 30, 230 feet; salt, 1045 feet.
- 14) Approximate coal seam depths: 230, 510 Is coal being mined in the area? Yes _____ / No /

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		
Conductor	<u>11 3/4</u>			<input checked="" type="checkbox"/>		<u>249</u>		Kinds
Fresh water								
Coal								Sizes
Intermediate	<u>8 5/8</u>		<u>23</u>	<input checked="" type="checkbox"/>		<u>1439</u>	<u>1439</u>	<u>To Surf. by rule 15.05</u>
Production	<u>4 1/2</u>		<u>10.5</u>	<input checked="" type="checkbox"/>			<u>2900</u>	<u>300 SRS.</u>
Tubing								<u>or as req. by rule 15.01</u>
Liners								Perforations: Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-033-2979 Date February 8, 1984

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 February 8, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <input checked="" type="checkbox"/> <u>MJ</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>294</u>
-----------------	--	-----------------	-------------------	-----------------

[Signature]

Administrator, Office of Oil and Gas

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

File

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

2/8



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

OFFICE USE ONLY

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

1) LOCATION: District: CLAY County: HARRISON Watercourse: West Fork River Elevation: 1018 B (1) Gas, Production: Shallow U (2) Underground storage: Deep

2) WELL OPERATOR: Hydrocarbon Energy Address: P.O. Drawer 272, Beckman, W.Va. 25801

3) OIL & GAS INSPECTOR TO BE NOTIFIED: Name: Stephen Casey (504) Address: Rt. 2, Box 252, Beckman, W.Va. 25801

4) DRILLING CONTRACTOR: Name: _____ Address: _____

5) DESIGNATED AGENT: Alan Gordon Address: PO Drawer 272 Beckman W.Va. 25801

6) PROPOSED WELL WORK: Drill X Plug old formation _____ Other physical change in well (specify): 2 1/2" SAND

7) GEOLOGICAL TARGET FORMATION: _____

8) Estimated depth of completed well: 2500 feet

9) Approximate true depth: 80-930 feet

10) Approximate coal seam depth: 200-610 feet

11) CASING AND TUBING PROGRAM: Is coal being mined in the area? Yes X No _____

CASING OR TUBING TYPE	SPECIFICATIONS	FOOTAGE INTERVAL		CEMENT PLUG	FACTORS
		Start in well	End in well		
Condensate	Size: 11 1/2"		250		kind
Fresh water					
Oil					
Intermittent	Size: 8 1/2"	1430	1450		To surge by 10.05
Production	Size: 4 1/2"	128	128		3000

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: _____

Reason: _____

Boiler	Agent	Plat	Casing	Rec
BP	ML	ML	ML	ML

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.

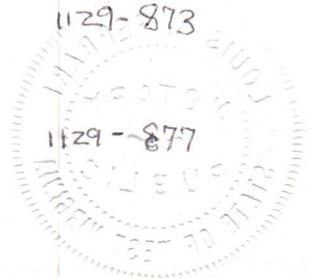
I N F O R M A T I O N S U P P L I E D U N D E R C O D E § 22-4-11(d)

I N L I E U O F F I L I N G L E A S E (S) A N D O T H E R C O N T I N U I N G C O N T R A C T (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:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
IRENE BICE JETT	HYDROCARBON ENERGIES INC.	1/8	1129-873
Rhoda SQUIRES	HYDROCARBON ENERGIES INC.	1/8	1129-877



1) Date: JAN. 20, 1984
2) Operator's Well No. I.B. Jett #3
3) API Well No. 47-033-2979
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
- (i) Name IRENE BICE JETT
Address P.O. Box 323
Enterprise W.V. 26568
 - (ii) Name Rhoda Squires
Address Rt. 35 Box 5
Heaters W.V. 26627
 - (iii) Name Shirley KITTLE (LEASES SURFACE)
Address Box 125
Gypsy W.V.A. 26361

- 5(i) COAL OPERATOR
Address _____
- 5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Clay Development
Address P.O. 386
Shinnston W.V. 26431
Name _____
Address _____
- 5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

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

Alvin Sorcan - President,
this 20 day of JANUARY, 1984.
My commission expires 12/20, 1990.

Louis G. Ferreri
Notary Public, UPSHUR County,
State of WEST VIRGINIA

WELL OPERATOR Hydrocarbon Energies Inc.

By Alvin Sorcan
Its PRESIDENT
Address P.O. DRAWER 976
Buckhannon W.V. 26201
Telephone (304) 472-9600

DEPT. OF MINES
OIL & GAS DIVISION
RECEIVED
JAN 23 1984



DATE 1-19-84
WELL NO. JETT #3
API NO. 47-033-2979

IV-9
(Rev 8-81)

RECEIVED
FEB 3 - 1984

State of West Virginia
Department of Mines
Oil and Gas Division

DEPT. OF MINES CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME HYDROCARBON ENERGIES, INC. DESIGNATED AGENT ALVIN SORCAN
Address P.O. DRAWER 976, BUCKHANNON, W.V. Address BUCKHANNON, W.V.
Telephone 472-9600 Telephone 472-9600

LANDOWNER I.B. JETT SOIL CONS. DISTRICT West Fork
Revegetation to be carried out by ALVIN SORCAN (Agent)

This plan has been reviewed by West Fork SCD. All corrections and additions become a part of this plan: 2/1/84 (Date)

THIS REVIEW IS MADE FOR SITE AS SHOWN. A CHANGE OF ELEVATION OF PLUS OR MINUS 10 FT. OR SLOPE OF PLUS OR MINUS 3 PERCENT MAKES THIS PLAN NOT ACCEPTABLE TO WFSKD.

Kenneth E Knight ON SITE REVIEW 2/1/84
(SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>DRAIN DITCH</u> (A)	Structure <u>DRILLING PIT</u> (1)
Spacing <u>ALONG ROAD (Inside road cuts)</u>	Material <u>EARTHEN</u>
Page Ref. Manual <u>2-12</u>	Page Ref. Manual <u>N/A</u>
Structure <u>BRAKEERS</u> (B)	Structure <u>Diversion Ditch</u> (2)
Spacing <u>60-100 FEET apart</u>	Material <u>Earthen</u>
Page Ref. Manual <u>2-4</u>	Page Ref. Manual <u>2-12</u>
Structure <u>Culvert (18" min. I.D.)</u> (C)	Structure <u>Filter strip</u> (3)
Spacing <u>(at natural drains) according to Oil & Gas Manual</u>	Material <u>undisturbed natural vegetation</u>
Page Ref. Manual <u>2-7</u>	Page Ref. Manual <u>2-16</u>

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.

Structure Rip Rap (4)
Material Rock
Pg. Ref. Man. N/A

REVEGETATION

Treatment Area I		
*Lime	<u>6.5</u>	Tons/acre or correct to pH
Fertilizer	<u>600</u>	lbs/acre (10-20-20 or equivalent)
Mulch	<u>HAY OR STRAW 2</u>	Tons/acre
Seed*	<u>KY 31 FESCUE 35</u>	lbs/acre
	<u>LADINO CLOVER 5</u>	lbs/acre
	<u>ANNUAL RYE 10</u>	lbs/acre

Treatment Area II		
*Lime	<u>AS AREA I</u>	Tons/acre or correct to pH
Fertilizer		lbs/acre (10-20-20 or equivalent)
Mulch		Tons/acre
Seed*		lbs/acre
		lbs/acre
		lbs/acre

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

*Lime according to pH test.

PLAN PREPARED BY HYDROCARBON ENERGIES, INC.
ADDRESS P.O. DRAWER 976
BUCKHANNON, W.V.
PHONE NO. 472-9600

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

RECEIVED
FEB 2 - 1984

OIL & GAS DIVISION
DEPT. OF MINES

P 360 030 441
RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

SENT TO STREET AND NO. P.O. STATE AND ZIP CODE	Clay Development P.O. Box 386 Shinnston W.V. 26431
POSTAGE	\$2.20
CERTIFIED FEE	75¢
SPECIAL DELIVERY	60¢
RESTRICTED DELIVERY	
OPTIONAL SERVICES	
RETURN RECEIPT SERVICE	
CONSULT POSTMASTER FOR FEES	
TOTAL POSTAGE	\$1.55

POSTMARK: CLARKSBURG, WV, JAN 20 1984, USPS

JEH #3

SENT TO STREET AND NO. P.O. STATE AND ZIP CODE	Irene Big Jett P.O. Box 323 Enter Price W.V. 26568
POSTAGE	2.11
CERTIFIED FEE	75¢
SPECIAL DELIVERY	60¢
RESTRICTED DELIVERY	
OPTIONAL SERVICES	
RETURN RECEIPT SERVICE	
CONSULT POSTMASTER FOR FEES	
TOTAL POSTAGE	\$1.55

POSTMARK: CLARKSBURG, WV, JAN 20 1984, USPS

JEH #3

P 360 030 442
RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

SENT TO STREET AND NO. P.O. STATE AND ZIP CODE	Rhoda Squires Rt. 35 Box 5 Heaters W.V. 26568
POSTAGE	\$2.20
CERTIFIED FEE	75¢
SPECIAL DELIVERY	60¢
RESTRICTED DELIVERY	
OPTIONAL SERVICES	
RETURN RECEIPT SERVICE	
CONSULT POSTMASTER FOR FEES	
TOTAL POSTAGE	\$1.55

POSTMARK: CLARKSBURG, WV, JAN 20 1984, USPS

JEH #3

P 360 030 440
RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

SENT TO STREET AND NO. P.O. STATE AND ZIP CODE	Shirley Kittle Box 125 Gypsy W.V. 26361
POSTAGE	\$2.20
CERTIFIED FEE	75¢
SPECIAL DELIVERY	60¢
RESTRICTED DELIVERY	
OPTIONAL SERVICES	
RETURN RECEIPT SERVICE	
CONSULT POSTMASTER FOR FEES	
TOTAL POSTAGE	\$1.55

POSTMARK: CLARKSBURG, WV, JAN 20 1984, USPS

JEH #3

PS Form 3800, Apr. 1976

SENT TO STREET AND NO. P.O. STATE AND ZIP CODE	Rhoda Squires Rt. 35 Box 5 Heaters W.V. 26568
POSTAGE	\$2.20
CERTIFIED FEE	75¢
SPECIAL DELIVERY	60¢
RESTRICTED DELIVERY	
OPTIONAL SERVICES	
RETURN RECEIPT SERVICE	
CONSULT POSTMASTER FOR FEES	
TOTAL POSTAGE	\$1.55

POSTMARK: CLARKSBURG, WV, JAN 20 1984, USPS

JEH #3

PS Form 3800, Apr. 1976

SENT TO STREET AND NO. P.O. STATE AND ZIP CODE	Rhoda Squires Rt. 35 Box 5 Heaters W.V. 26568
POSTAGE	\$2.20
CERTIFIED FEE	75¢
SPECIAL DELIVERY	60¢
RESTRICTED DELIVERY	
OPTIONAL SERVICES	
RETURN RECEIPT SERVICE	
CONSULT POSTMASTER FOR FEES	
TOTAL POSTAGE	\$1.55

POSTMARK: CLARKSBURG, WV, JAN 20 1984, USPS

JEH #3

PS Form 3800, Apr. 1976

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

Frac: 8-10-84

<u>FORM.</u>	<u>PERFS</u>	<u>BRKD</u>	<u>SAND</u>	<u>H2O</u>	<u>RATE</u>	<u>ISIP</u>	<u>CO2</u>
5th Sand	2765-2801	2500#	59,000#	631	26	1800#	20Tons

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	<u>REMARKS</u>
					Including indication of all fresh and salt water, coal, oil and gas
Sand	Br	M	0	20	H2O @ 65', 703' Coal @ 20', 345'
Coal	Bl	S	20	23	
Sand	Br	M	23	153	
Shale	Gr	S	153	345	
Coal	Bl	S	345	352	
Sand	W	H	352	725	
Shale	Gr	S	725	1035	
Sand	W	H	1035	1130	
Shale	Gr	S	1130	1723	
Big Lime	Br	H	1723	1770	
Big Injun	W	H	1770	1863	
Shale	Gr	S	1863	2266	
Gantz	W	H	2266	2305	
50'	W	H	2305	2391	
30'	W	H	2391	2424	
Gordon Stray	Br	M	2424	2494	
Gordon	Br	M	2494	2600	
4th Sand	W	H	2600	2670	
Shale	Gr	S	2670	2752	
5th Sand	Br	M	2752	2808	Show Oil @ 2800'
Shale	Gr	S	2808	2935	
Total Depth				2935	Check Gas @ T.D. Show

(Attach separate sheets as necessary)

Well Operator

By: Alvin Larson

Date: 8-1-84

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)

RECEIVED

AUG 15 1984



OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date 8-14-84
Operator's
Well No. Jett # 3
Farm I. B. Jett # 3
API No. 47-033-2979

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1318 Watershed West Fork River
District: Clay County Harrison Quadrangle Clarksburg 7 1/2

COMPANY Hydrocarbon Energies, Inc.
ADDRESS P.O. Drawer 976, Buckhannon, WV 26201
DESIGNATED AGENT Alvin Sorcan
ADDRESS Rt. 4, Box 444, Buckhannon, WV 26201
SURFACE OWNER Irene Bice Jett (et al)
ADDRESS P.O. Box 323, Enterprise, WV 26568
MINERAL RIGHTS OWNER Irene Bice Jett
ADDRESS Same
OIL AND GAS INSPECTOR FOR THIS WORK Steve Casey
ADDRESS Jane Lew, WV 26378
PERMIT ISSUED 2-8-84
DRILLING COMMENCED 7-24-84
DRILLING COMPLETED 7-30-84

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
<u>11 3/4</u>	<u>370</u>	<u>370</u>	<u>125 Sks. To Surface</u>
<u>9 5/8</u>			
<u>8 5/8</u>	<u>1363</u>	<u>1363</u>	<u>330 Sks. To Surface</u>
<u>7</u>			
<u>5 1/2</u>			
<u>4 1/2</u>		<u>2899</u>	<u>300 Sks. (1500-2899)</u>
<u>3</u>			
<u>2</u>			
Liners used			

GEOLOGICAL TARGET FORMATION 5th Sand Depth 2770 feet
Depth of completed well 2935 feet Rotary X / Cable Tools
Water strata depth: Fresh 65 feet; Salt 703 feet
Coal seam depths: 20, 345 Is coal being mined in the area? Yes

OPEN FLOW DATA

Producing formation 5th Sand Pay zone depth 2765-2801 feet
Gas: Initial open flow Show Mcf/d Oil: Initial open flow Show Bbl/d
Final open flow 15 Mcf/d Final open flow 8 Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 375 psig (surface measurement) after 48 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)

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

RECEIVED
AUG - 1 - 1984

INSPECTOR'S WELL REPORT OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 33-2979

Oil or Gas Well _____
(KIND)

Company Hydro-Carbon

Address _____

Farm Jett

Well No. 3

District Clay County Hann.

Drilling commenced 7-24-84

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 65 feet _____ 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 1 3/4 SIZE 370' No. FT. 125 SKS, Date _____

NAME OF SERVICE COMPANY Halliburton

COAL WAS ENCOUNTERED AT 20 FEET 36 INCHES

_____ FEET _____ INCHES FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names C.O. 1

Remarks: open shaft 345-352

7-26-84
DATE

Steve Casey
DISTRICT WELL INSPECTOR

Form 26
2/16/82

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

INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner			Location	Amount	Packer	Location
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING	
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE LOST

Drillers' Names _____

Remarks: _____

_____ DATE I hereby certify I visited the above well on this date.

DISTRICT WELL INSPECTOR

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

RECEIVED

AUG - 1 1984

INSPECTOR'S WELL REPORT OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 33-2979

Oil or Gas Well _____
(KIND)

Company Hydro-Carbon

Address _____

Farm Jett

Well No. 3

District _____ County Harr.

Drilling commenced _____

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 703 feet _____ 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 3/4			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 35/8 SIZE 1363' No. FT. 330 SKS. Date _____

NAME OF SERVICE COMPANY Halliburton

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names C.O. 1

Remarks: drd. at 1800

7-30-84

DATE

Steve Case

DISTRICT WELL INSPECTOR

Form 26
2/16/82

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

INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner			Location		Amount		Packer		Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING						
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST				

Drillers' Names _____

Remarks: _____

_____ I hereby certify I visited the above well on this date.

DATE

DISTRICT WELL INSPECTOR

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

RECEIVED

AUG - 3 - 1984

INSPECTOR'S WELL REPORT OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 33-2979

Oil or Gas Well _____
(KIND)

Company <u>Hydro-Carbon</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Jett</u>	16			Kind of Packer _____
Well No. <u>3</u>	13			
District <u>Clay</u> County <u>Hamp-</u>	10			Size of _____
Drilling commenced <u>7-24-84</u>	8 1/4			
Drilling completed <u>7-31-84</u> Total depth <u>2935</u>	6 3/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names C O I

Remarks: 4 1/2 2899 330 SK3. Halliburton

7-31-84
DATE

Steve Casey
DISTRICT WELL INSPECTOR

Form 26
2/16/82

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

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

_____ I hereby certify I visited the above well on this date.

DATE

DISTRICT WELL INSPECTOR

RECEIVED

JAN - 8 1985

**OIL & GAS DIV.
 DEPT. OF MINES**

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

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

WELL OPERATOR Hydrocarbon Energies, Inc.
 Address P. O. Drawer 976
Buckhannon, W. Va. 26201

DESIGNATED AGENT Alvin Sorcan
 Address Rt. 4, Box 444
Buckhannon, W. Va. 26201

GEOLOGICAL TARGET FORMATION: 5th Sand Depth 2762 - 2811 feet
 Perforation Interval 2765 - 2801 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 <u>11-1-84</u>	TIME	END OF TEST-DATE <u>11-29-84</u>	TIME	DURATION OF TEST <u>28 days</u>
TUBING PRESSURE <u>168</u>	CASING PRESSURE <u>445</u>	SEPARATOR PRESSURE <u>159</u>	SEPARATOR TEMPERATURE <u>40</u>	
OIL PRODUCTION DURING TEST <u>290</u> bbls.	GAS PRODUCTION DURING TEST <u>987</u> Mcf		WATER PRODUCTION DURING TEST & SALINITY <u>9.8</u> bbls. ppm.	
OIL GRAVITY <u>.46</u> °API		PRODUCING METHOD (Flowing, pumping, gas lift, etc.) <u>Flowing</u>		

GAS PRODUCTION			
MEASUREMENT METHOD FLANGE TAP <input checked="" type="checkbox"/> PIPE TAP <input type="checkbox"/> L-10 <input type="checkbox"/>		POSITIVE CHOKE <input type="checkbox"/> CRITICAL FLOW PROVER <input type="checkbox"/>	
ORIFICE DIAMETER <u>1/2</u>	PIPE DIAMETER (INSIDE DIAM.) <u>2 inch</u>	NOMINAL CHOKE SIZE - IN.	
DIFFERENTIAL PRESSURE RANGE		MAX. STATIC PRESSURE RANGE	
DIFFERENTIAL		PROVER & ORIFICE DIAM. - IN.	
DIFFERENTIAL		GAS GRAVITY (Air=1.0) MEASURED ESTIMATED	
GAS GRAVITY (Air=1.0) <u>.65</u>	FLOWING TEMPERATURE		GAS TEMPERATURE _____ °F
24 HOUR COEFFICIENT.		24 HOUR COEFFICIENT	
		PRESSURE - _____ psia	

TEST RESULTS			
DAILY OIL <u>10.4</u> bbls.	DAILY WATER <u>.35</u> bbls.	DAILY GAS <u>35.3</u> Mcf.	GAS-OIL RATIO SCF/STB

Hydrocarbon Energies, Inc.
 Well Operator

By: Alvin Sorcan
 Its: _____

IV-20
Of these
1 4

RECEIVED
OCT 30 1985

30-Jan-85

**DIVISION OF OIL & GAS
DEPT. OF ENERGY**

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OFFICE OF OIL AND GAS
CHARLESTON 25305
FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

(2-08-84)

Company: HYDROCARBON ENERGIES
Farm: I B JETT #? Well: 3

Permit No. 47- 33-2979
County: HARRISON

Rule	Description	In Compliance	
		Yes	No
23.06	Notification prior to starting work	_____	_____
25.04	Preped before drilling to prevent waste	_____	_____
25.03	High pressure drilling	_____	_____
16.01	Required permits at wellsite	_____	_____
15.03	Adequate Fresh Water Casing	_____	_____
15.02	Adequate Coal Casing	_____	_____
15.01	Adequate Production Casing	_____	_____
15.04	Adequate Cement Strength	_____	_____
15.05	Cement Type	_____	_____
23.02	Maintained Access Roads	_____	_____
23.01	Necessary Equipment to Prevent Waste	_____	_____
23.04	Reclaimed Drilling Pits	_____	_____
23.05	No Surface or Underground Pollution	_____	_____
23.07	Requirements for Production & Gathering Pipelines	_____	_____
16.01	Well Records on Site	_____	_____
16.02	Well Records Filed	_____	_____
7.05	Identification Markings	_____	_____

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

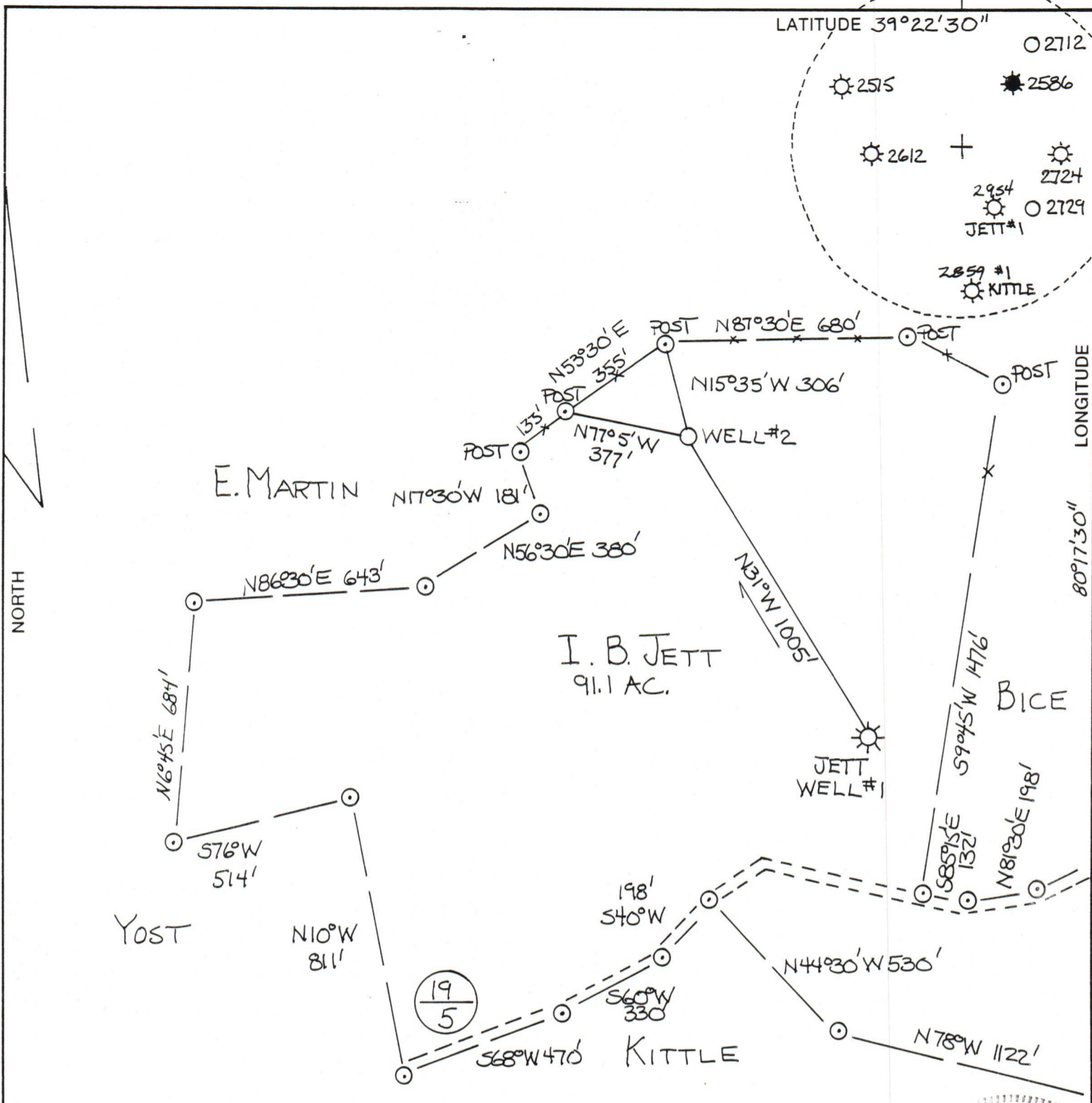
SIGNED Steve Casey

DATE 10-29-85

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.

T.H. Abbott
Administrator

November 5, 1985
Date



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

FILE NO. 1-15-84
 DRAWING NO. 1-15-84
 SCALE 1"=400'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION BM ± 2400'
SOUTHWEST (1038)

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) Walter P. Lepout
 R.P.E. 7410 L.L.S. _____

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE JAN 15, 19 84
 OPERATOR'S WELL NO. _____
 API WELL NO. 47-033-2979
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1318 WATER SHED WEST FORK RIVER
 DISTRICT CLAY COUNTY HARRISON
 QUADRANGLE CLARKSBURG 7/2

SURFACE OWNER I. B. JETT ACREAGE 91.1
 OIL & GAS ROYALTY OWNER I. B. JETT LEASE ACREAGE 91.1
 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 5th Sand ESTIMATED DEPTH 2900'
 WELL OPERATOR HYDROCARBON ENERGIES INC. DESIGNATED AGENT AL SORCAN
 ADDRESS PO DRAWER 976 ADDRESS PO DRAWER 976
BUCKHANNON W. VA. 26201 BUCKHANNON W. VA. 26201

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

COUNTY NAME
 PERMIT