



1) Date: March 5, 19 83
 2) Operator's Well No. 1 RENEWAL
 3) API Well No. 47 001 1760
 State County Permit

DRILLING CONTRACTOR:

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas X
 B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 1860 ft Watershed: Sugar Creek
 District: Barker County: Barbour Quadrangle: Belington, 7 1/2
- 6) WELL OPERATOR Eastern Intermountain Energy, DESIGNATED AGENT George Williams
 Address P.O. Box 902 Address P.O. Box 902
Belington, WV 26250 Belington, WV 26250
- 7) OIL & GAS ROYALTY OWNER Alva McLean
 Address Belington, WV 26250
 Acreage 15 acres
- 8) SURFACE OWNER Same
 Address
 Acreage
- 9) FIELD SALE (IF MADE) TO:
 Address Unknown
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Robert Stewart
 Address Box 345 Jane Lew, WV
Phone 884-7728
- 12) COAL OPERATOR none
 Address
- 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Name same
 Address
 Name
 Address
- 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name
 Address
- 15) PROPOSED WORK: Drill X / Drill deeper / Redrill / Fracture or stimulate X / MAR 9 - 1983
 Plug off old formation / Perforate new formation
 Other physical change in well (specify)
- 16) GEOLOGICAL TARGET FORMATION, Haverty Sd
- 17) Estimated depth of completed well, 5500 feet
- 18) Approximate water strata depths: Fresh, 60,250 feet; salt, feet.
- 19) Approximate coal seam depths: Unknown Is coal being mined in the area? Yes / No X

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	Size	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
		Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	<u>11 3/4</u>					<u>40 ft</u>	<u>40 ft</u>	<u>to surface</u>	<u>Rinds</u>
Fresh water									
Coal									<u>Sizes</u>
Intermediate	<u>8 3/8</u>					<u>1100 ft</u>	<u>1100 ft</u>	<u>to surface</u>	<u>NEAT</u>
Production	<u>4 1/2</u>					<u>5500 ft</u>	<u>5500 ft</u>	<u>to 2600 ft</u>	<u>Depths set</u>
Tubing									
Liners									<u>Perforations:</u>
									<u>Top Bottom</u>

- 21) 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.)
- 22) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing 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 X No
- If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
- 23) Required Copies (See reverse side.)
- 24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: Irene Ross
 My Commission Expires MAY 20, 1991

Signed: George Williams
 Its: Designated Agent

OFFICE USE ONLY

Permit number 47-001-1760-REN. DRILLING PERMIT Date March 23 19 83

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. 10) 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.)

Permit expires November 23, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>LP</u>	Plat: <u> </u>	Casing: <u> </u>	Fee: <u>\$500.00</u> <u>no #</u>
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T. J. Williams
 Administrator, Office of Oil and Gas

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, 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 §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) **The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.**

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19____

By _____

Its _____



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

APR 13 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

Surface Owner Alva McLean
Address Belington, WV
Mineral Owner same
Address same
Coal Owner same
Address same
Coal Operator none
Address ---

DATE 9 April, 1982
Company Eastern Intermountain Energy Ltd.
Address Box 2683, Charleston, WV 25330
Farm A. McLean Acres 15
Location (waters) Sugar Creek
Well No. 1 Elevation 1860' 1450
District Barker County Barbour
Quadrangle Belington 7 1/2

THIS PERMIT MUST BE POSTED AT THE WELL SITE.

ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY INSPECTOR Robert Stewart

APPROVED FOR drilling THIS PERMIT SHALL EXPIRE 12-20-82
IF OPERATIONS HAVE NOT COMMENCED BY 12-20-82 ADDRESS Box 345, Jane Lew, WV

BY [Signature] PHONE 884-7728

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated 26 February 1982 by Alva & Anna McClean made to Eastern Intermountain and recorded on the 26 day of February 1982, in Barbour County, Book 90 Page 56

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address --- day --- before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Very truly yours, Eastern Intermountain Energy Ltd.

(Sign Name) [Signature]
Well Operator

Address Box 2683
of Charleston
Well Operator Charleston
Wv
State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND



1) Date: November 18, 19 83
 2) Operator's Well No. Renewal 1
 3) API Well No. 47 001 1760REN
 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 XX / Gas XX /
 B (If "Gas", Production X / Underground storage / Deep / Shallow X /)
- 5) LOCATION: Elevation: 1860 Watershed: Sugar Creek
 District: Barker County: Barbour Quadrange: Belington 7 1/2
- 6) WELL OPERATOR Eastern Intermountain Energy DESIGNATED AGENT George Williams
 Address P.O. Box 902 Address P.O. Box 902
Belington, WV 26250 Belington, WV 26250
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Phillip Tracy
 Address Elkins, WV Phone 636-8798
- 9) DRILLING CONTRACTOR: Name Unknown
 Address
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper / Redrill / Stimulate X /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Haverty Sd.
 12) Estimated depth of completed well, 5500 feet
 13) Approximate trata depths: Fresh, 60,250 feet; salt, feet.
 14) Approximate coal seam depths: Unknown Is coal being mined in the area? Yes / No XX /

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	11 3/4					40ft	40ft	Kinds
Fresh water								Sizes
Coal						1100ft	1100ft to surface	Depths set
Intermediate	8 5/8					5500ft	5500ft to 2600ft	Perforations:
Production	4 1/2							Top Bottom
Tubing								
Liners								

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-001-1760-Ren

Date December 5, 1983

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 December 5, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>CD</u>	Agent: <u>MH</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>164</u>
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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.



OFFICE USE ONLY

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

1) LOCATION: B (Oil & Gas) Production Shallow Deep
 Elevation: 1800
 District: Baker
 County: Boone
 Designated Agent: George Williams
 Address: P.O. Box 902, Belington, WV 26250

2) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name: Phillip Tracy
 Address: Belington, WV
 Phone: 606-8798

3) PROPOSED WELL WORK: Plus old formation Part of old formation Part of new formation
 Other physical change in well (specify):

4) GEOLOGICAL TARGET FORMATION: Haverly Sh.

5) Estimated depth of completed well: 3500 feet
 Approximate true depth: 60,000 feet
 Approximate coal seam depth: UNKNOWN
 Is coal being mined in the area? Yes No

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		Follow-up inspection(s)
Well work started		" "
Completion of the drilling process		" "
Well Record received		" "
Reclamation completed		" "

OTHER INSPECTIONS

Reason:

Reason:

Boiler	Agmt:	Plan:	Case:	Test
GD	MH	MH	MH	MH

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

1) Date: November 18, 1983
 2) Operator's
 Well No. Renewal 1
 3) API Well No. 47 - 001 - 1760-Ren
 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 Alva McLean
 Address Belington, WV 26250

(ii) Name _____
 Address _____

(iii) Name _____
 Address _____

5(i) COAL OPERATOR None
 Address _____

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

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

X 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

WELL OPERATOR Eastern Intermountain Energy, Inc

By [Signature]
 Its _____

Address P.O. Box 902

Belington, WV 26250

Telephone 823-1746

this 29 day of November, 1983.

My commission expires March 7, 1993.

Floa E. Williams
 Notary Public, Barbour County,
 State of W.VA.

**INSTRUCTIONS TO SURFACE OWNERS
AND
EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT
ON OIL AND GAS WELL WORK PERMIT**

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (**NOTE:** If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

NOTE: You are not required to file any comment at all.

Where to file comments and obtain additional information:

Administrator of the Office of Oil and Gas
West Virginia Department of Mines
1615 Washington Street East
Charleston, West Virginia 25311
(304) 348-2057

Who may file comments? If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

Time limits for comments. The law requires these materials to be delivered on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments as provided in **Methods for Filing Comments** below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- "(1) The proposed well work will constitute a hazard to the safety of persons; or
- "(2) The plan for soil erosion and sediment control is not adequate or effective; or
- "(3) Damage would occur to publicly owned lands or resources; or
- "(4) The proposed well work fails to protect fresh water sources or supplies."

If you want a copy of the permit as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.



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2) Operator's Well No. Renewal 1
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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: 1860 Watershed: Sugar Creek
District: Barker County: Barbour Quadrangle: Belington 7a
- 6) WELL OPERATOR Eastern Intermountain Energy 7) DESIGNATED AGENT George Williams
Address P.O. Box 902 Address P.O. Box 902
Belington, WV 26250 Belington, WV 26250
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Phillip Tracy
Address Elkins, WV
Phone 636-8798
- 9) DRILLING CONTRACTOR: Name Unknown
Address _____
- 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, Haverty Sd.
- 12) Estimated depth of completed well, 5500 feet
- 13) Approximate strata depths: Fresh, 60,250 feet; salt, _____ feet.
- 14) Approximate coal seam depths: Unknown 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	Left in well		Kinds	
Conductor	<u>11 3/4</u>					<u>40ft</u>	<u>40ft</u>			
Fresh water										
Coal									Sizes	
Intermediate	<u>8 5/8</u>					<u>1100ft</u>	<u>1100ft</u>	<u>to surface</u>		
Production	<u>4 1/2</u>					<u>5500ft</u>	<u>5500ft</u>	<u>to 2600ft</u>	Depths set	
Tubing										
Liners									Perforations:	
									Top	Bottom

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)

(For execution by natural persons)

NAME: Alva m c lean

Anna Bell McLean Date: _____
(Signature)

By _____

(Signature) Date: _____

Its _____ Date _____

AFFIDAVIT OF PERSONAL SERVICE ON SURFACE OWNER

STATE OF W. Va,
COUNTY OF Barbour:

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) / Form IV-3(A) / Form IV-4(A) /
- (2) Application on Form IV-2(B) / 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. 1760 located in Barber District, Barbour County, West Virginia, upon the person or organization named--

Alva McLean

--by delivering the same in Barbour County, State of W. Va. on the 29 day of November, 1983 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

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

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 _____.

[Signature]
(Signature of person executing service)

Taken, subscribed and sworn before me this 29 day of November, 1983.
My commission expires March 7, 1993.

[Signature]
Notary Public

(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)

b11

1760

LEASE EXTENSION AGREEMENT

BOOK 97 PAGE 11

This agreement extends the lease between Alva McLean of Belington, West Virginia and Eastern Intermountain Energy, Inc. for a period of an additional six months in consideration for the sum of one hundred five (105.00) dollars receipt hereby acknowledged.

This original lease is described in Deed Book 90 Page 55 as filed in the office of the County Clerk, Barbour County, West Virginia.

The lease is now valid under all the original terms and conditions for a period of twenty four months from the initial date of this lease.

Alva McLean

Anna Belle McLean

Lessors

RECEIVED

NOV 21 1983

OIL & GAS DIVISION
DEPT. OF MINES

I, Florence E. Williams a Notary Public in and for said County of Barbour do certify that Alva McLean & Anna Belle McLean signed this writing

My Commission expires March 7, 1993

Florence E. Williams

Date March 19 1982

Well No. McLEAN 1

API No. 47 - Barbour - 1760-Ren.
State County



Company Name Eastern Intermountain En. Designated Agent Mr. William E. Bennett
Address P.O. Box 2683 Address P.O. Box 2683
Telephone Charleston W.Va. 25530 Telephone Charleston W.Va. 25530
Landowner Alva Mclean Soil Cons. District Barker

Revegetation to be carried out by Eastern Intermountain Engery (Agent)

This plan has been reviewed by Tygart Valley SCD. All corrections and additions become a part of this plan. 3-22-82 Junior Helms (Date) (SCD Agent)

Access Road	Structure	Spacing	Page Ref. Manual	Location	Structure	Material	Page Ref. Manual
	18" Culvert at Road(A)	Only one required					
	18" Culvert (B)	300' Max.	I-8				

RECEIVED

APR 13 1982

All structures should be inspected regularly and repaired if necessary. OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

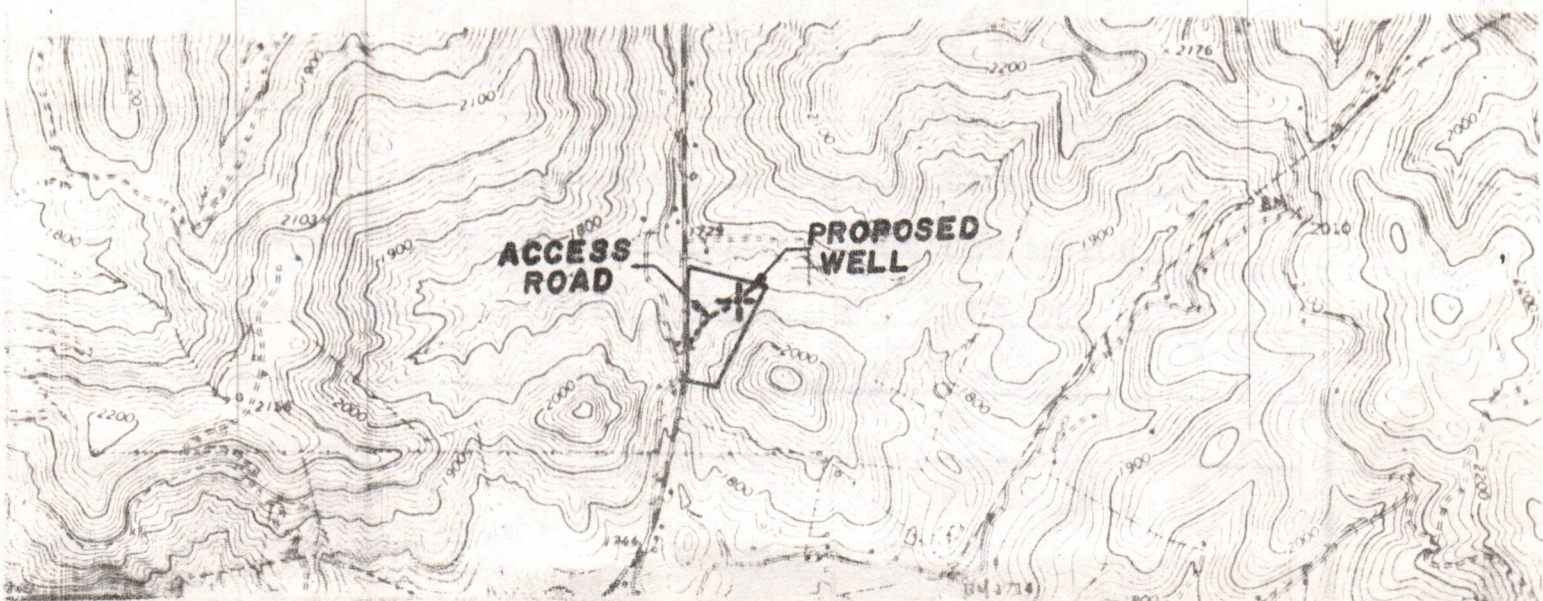
Revegetation

Treatment Area I			Treatment Area II		
Lime	Estimated	3 Tons/acre	Lime	Estimated	3 Tons/acre
	or correct to pH	<u>6.5</u>		or correct to pH	<u>6.5</u>
Fertilizer		600 lbs/acre	Fertilizer		600 lbs/acre
		(10-20-20 or equivalent)			(10-20-20 or equivalent)
Mulch	Hay	2 Tons/Acre	Mulch	Hay	3 Tons/Acre
Seed*	Kentucky 31	40 lbs/acre	Seed*	Kentucky 31	40 lbs/acre
	Birdfoot Trefoil	10 lbs/acre		Birdfoot Trefoil	10 lbs/acre
	Ryegrass	10 lbs/acre		Ryegrass	10 lbs/acre

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

Attach or photocopy section of involved Topographic map. Quadrangle Belington W.Va.

Legend: Well Site
 Access Road

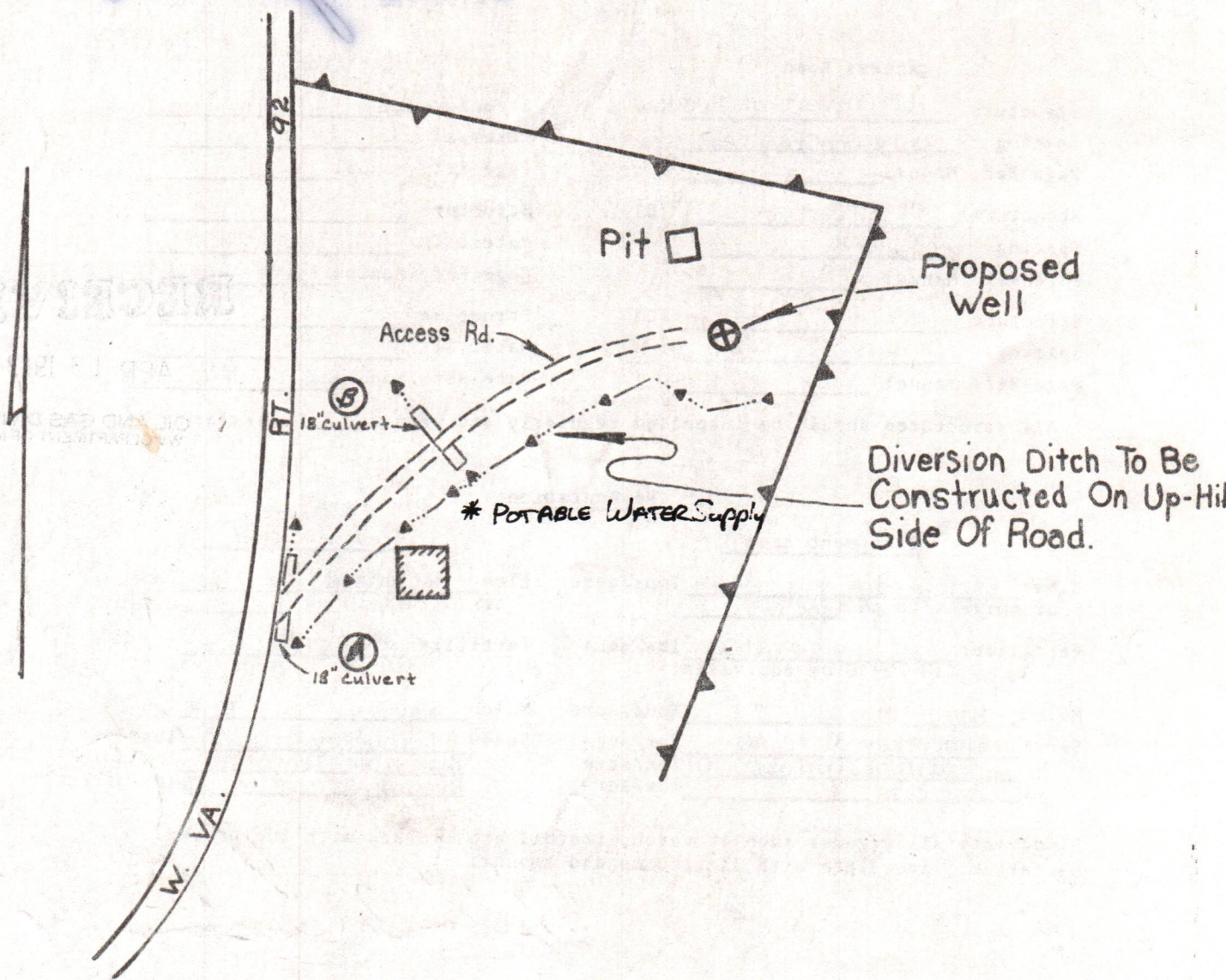


Well Site Plan

- Legend:
- Property Boundry
 - Road
 - Existing Fence
 - Planned Fence
 - Stream
 - Open Ditch

- Diversion
- Spring
- Wet Spot
- Building
- Drain Pipe
- Waterway

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with first part of this plan. Include all natural drainage.



Comments:

- 1.) Disturbed area to be kept to a minimum.
- 2.) Cut slopes to be 2:1.
- 3.) New culverts to be at natural drain areas or at 300' max.
Ditches to be cut on uphill side of road where necessary.
- 4.) Access Roadway shall be constructed so as to protect the Potable water supply.

Signature:

Agent

Address

Phone Number

operation to protect new ing for one growing season.

A 12
the sum of one hundred five (105.00) dollars receipt hereby acknowledged.

This original lease is described in Deed Book 90 Page 55 as filed in the office of the County Clerk, Barbour County, West Virginia.

The lease is now valid under all the original terms and conditions for a period of twenty four months from the initial date of this lease.

RECEIVED
NOV 21 1983
OIL & GAS DIVISION
DEPT. OF MINES

Alva McLean

Anna Belle McLean

Lessors

I, Glenna E. Williams a Notary Public in and for said County of Barbour do certify that Alva McLean & Anna Belle McLean signed this writing

My Commission expires March 7, 1993

Glenna E. Williams

24-30-7
BARBOUR COUNTY, W.V.
FILED OR RECORDED

1983 SEP -6 AM 10:57
9/5 92 PAGE 11
GLENN G. PROPST, CLERK

FEE PAID \$2.00
GLENN G. PROPST
CLERK BARBOUR COUNTY COURT

2 @ \$2.00 ea.

STATE OF WEST VIRGINIA, County of Barbour, To-wit:

I, Glenna G. Propst, Clerk of the County Commission of said County, do hereby certify that the foregoing writing, with Certificate thereto annexed, was this day produced to me in my office and duly admitted to record.

Witness my hand. Glenna G. Propst CLERK.

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

Perf Haverty 5008-5360 (16 holes) Frac with 200 sks 80/100, 300 sks 20/40
560# wg12 600 bbls treated fluid Avg rate 24 bpm Avg psi 3286#

Perf Benson Alexander 3975-4238 (19 holes) Frac with 200 sks 80/100 300 sks 20/40
560# wg12 500 gal Hcl 583 bbls treated fluid Avg rate 26 bpm Avg psi 1946#

Perf Balltown 2930-3220 (20 holes) Frac with 200 sks 80/100 350 sks 20/40
560# wg12 440 bbls treated fluid 500 gal Hcl Avg rate 27.3 bpm Avg psi 2129

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Top soil			0		
coal			80	80	
sd-sh			84	84	
coal			254	254	
sd-sh			260	260	
coal			805	805	
sd-sh			810	810	
rr			1120	1120	
sd-sh			1185	1185	
B Lime			1480	1480	
sd			1600	1600	
sd-sh			1670	1670	
sd			5015	5015	
sh			5095	5090	
				5444	

(Attach separate sheets as necessary)

Eastern Intermountain Energy
Well Operator
By: George Williams *George Williams*
Date: 1/23/85

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)

FERC FILE

Date 1/23/85
Operator's
Well No. #1
Farm McLean
API No. 47 - 001 - 1760

State of West Virginia
Department of Mines
Oil and Gas Division

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

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

LOCATION: Elevation: 1860 Watershed Sugar Creek
District: Barker County Barbour Quadrangle Belington 7.5'

COMPANY Eastern Intermountain Energy

ADDRESS PO Box 902 Crim Ave. Belington WV

DESIGNATED AGENT George Williams

ADDRESS PO Box 902 Crim Ave. Belington WV

SURFACE OWNER Alva McLean

ADDRESS Rt. 2 Belington WV

MINERAL RIGHTS OWNER Alva McLean

ADDRESS Rt. 2 Belington WV

OIL AND GAS INSPECTOR FOR THIS WORK _____

ADDRESS _____

PERMIT ISSUED _____

DRILLING COMMENCED 7-28-84

DRILLING COMPLETED 8-2-84

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"	36		
9 5/8			
8 5/8		1106	285 sks
7			
5 1/2			
4 1/2		5427	2300' fill up
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Haverty Depth 5000' feet

Depth of completed well 5444' feet Rotary X / Cable Tools _____

Water strata depth: Fresh 1075' feet; Salt _____ feet

Coal seam depths: 80-84, 254-260, 805-810 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Haverty Benson Pay zone depth 3975-5360 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 Balltown Pay zone depth 2930-3220 feet

Gas: Initial open flow 60 Mcf/d Oil: Initial open flow smell 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)

BAR 1760

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

RECEIVED

AUG - 3 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-1760 REN

Oil or Gas Well _____
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>EASTERN INTERMOUNTAIN</u>	Size			
Address _____	16			Kind of Packer _____
Farm <u>XXXXXXXXXX Mc Clean</u>	13			
Well No. <u>#1</u>	10			Size of _____
District _____ County <u>BARBOUR</u>	8 <u>5/8 -</u>			
Drilling commenced <u>7-28-84</u>	6 5/8			Depth set _____
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf. top _____
Volume _____ Cu. Ft.				Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Jacie - Rig #11

Remarks: Running 8 5/8 -

7/30/84
DATE

RC Beall
DISTRICT WELL INSPECTOR

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

RECEIVED
AUG 6 1984
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-1760R

Oil or Gas Well _____
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>EASTERN INTER MOUNTAIN</u>	Size			
Address _____	16			Kind of Packer _____
Farm <u>McCLEAN</u>	13			
Well No. _____	10			Size of _____
District _____ County <u>BARBOUR</u>	8 5/8 -	1105	1105	
Drilling commenced _____	6 5/8			Depth set _____
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf. top _____
Volume _____ Cu. Ft.				Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names JACIZ - Rig #11

Remarks: Dug @ - 4930

8/2/84
DATE

RG Beane
DISTRICT WELL INSPECTOR

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

RECEIVED
MIG 13 1985

Company: EASTERN INTERMOUNTAIN ENERGY
Farm: McLEAN, ALVA Well: 1

Permit No. 47-
County: BARBOUR

1-1760
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
REN - 12-5-83

Rule	Description	In Compliance	
		Yes	No
23.06	Notification prior to starting work	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.04	Prepped before drilling to prevent waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.03	High pressure drilling	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Required permits at wellsite	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.03	Adequate Fresh Water Casings	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.02	Adequate Coal Casings	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.01	Adequate Production Casings	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.04	Adequate Cement Strength	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.05	Cement Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.02	Maintained Access Roads	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.01	Necessary Equipment to Prevent Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.04	Reclaimed Drilling Pits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.05	No Surface or Underground Pollution	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.07	Requirements for Production & Gathering Pipelines	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14.01	Well Records on Site	<input checked="" type="checkbox"/>	<input type="checkbox"/>
02	Well Records Filed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.05	Identification Markings	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

SIGNED *[Signature]*

DATE 8-7-85

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.

[Signature]
Administrator

August 22, 1985
Date

RECEIVED

JAN 29 1985

**OIL & GAS DIV.
DEPT. OF MINES**
Devonian State
Category Code

<p>1.0 API well number: (If not available, leave blank. 14 digits.)</p>	<p>47-001-1760</p>						
<p>2.0 Type of determination being sought: (Use the codes found on the front of this form.)</p>	<p>107 Section of NGPA</p>		<p>Category Code</p>				
<p>3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)</p>	<p>5360 feet</p>						
<p>4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)</p>	<p>Eastern Intermountain Energy Name PO Box 902 Crim Ave. Street Belington WV 26250 City State Zip Code</p>			<p>Seller Code</p>			
<p>5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)</p>	<p>Barker Field Name Barbour WV County State</p>						
<p>(b) For OCS wells:</p>	<p>Area Name _____ Block Number _____ Date of Lease: Mo. Day Yr. _____ OCS Lease Number _____</p>						
<p>(c) Name and identification number of this well: (35 letters and digits maximum.)</p>	<p>McLean #1</p>						
<p>(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)</p>	<p>Tenneco</p>						
<p>6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)</p>	<p>Name _____</p>			<p>Buyer Code _____</p>			
<p>(b) Date of the contract:</p>	<p>Mo. Day Yr. _____</p>						
<p>(c) Estimated annual production:</p>	<p>17 MMcf.</p>						
<p>7.0 Contract price: (As of filing date. Complete to 3 decimal places.)</p>	<p>(a) Base Price (\$/MMBTU)</p> <p>---</p>	<p>(b) Tax</p> <p>---</p>	<p>(c) All Other Prices [Indicate (+) or (-).]</p> <p>---</p>	<p>(d) Total of (a), (b) and (c)</p> <p>---</p>			
<p>8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)</p>	<p>---</p>	<p>---</p>	<p>---</p>	<p>---</p>			
<p>9.0 Person responsible for this application:</p>	<p>George Williams Agent Name Title <i>George Williams</i> Signature 1/25/85 Date Application is Completed 823-1746 Phone Number</p>						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Agency Use Only</td> </tr> <tr> <td>Date Received by Juris. Agency JAN 29 1985</td> </tr> <tr> <td>Date Received by FERC</td> </tr> </table>	Agency Use Only	Date Received by Juris. Agency JAN 29 1985	Date Received by FERC				
Agency Use Only							
Date Received by Juris. Agency JAN 29 1985							
Date Received by FERC							

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

FEB 15 1985

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Effective Date: 1/23, 19 85

AGENCY USE ONLY

Applicant's Name: Eastern Intermountain Energy

WELL DETERMINATION FILE NUMBER

Address: 902 Crim Ave.

850129 - 107-001 - 1760

Belington Wv 26205

Use Above File Number on all
Communications Relating to This Well

Gas Purchaser Contract No. _____

Effective Date of Contract _____
(Month, day and year)

First Purchaser: Tennessee Gas Pipeline

Designated Agent: George Williams

Address: Tenneco Bldg.

Address: 902 Crim Ave.

(Street or P.O. Box)
Houston TX 77001

Belington WV 26250

(City) (State) (Zip Code)

FERC Seller Code _____

FERC Buyer Code _____

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL
BE ADDRESSED:

Name: George Williams Agent _____
(Print) (Title)

Signature: *George Williams*

Address: 902 Crim Ave.

(Street or P.O. Box)

Belington WV 26250

(City) (State) (Zip Code)

Telephone: { 304 } 823-3207
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

A SECTION/SUBSECTION

New Natural Gas

108 Stripper Well Natural Gas

- 102-2 2.5 Mile Test
- 102-3 1000 Foot Deeper Test
- 102-4 New Onshore Reservoir

- 108- Stripper Well
- 108-1 Seasonally Affected
- 108-2 Enhanced Recovery
- 108-3 Temporary Pressure Buildup

New Onshore Production Well

- 103 New Onshore Production Well

High Cost Natural Gas

- 107-0 Deep (more than 15,000 feet)
- 107-1 Geopressured Brine
- 107-2 Coal Seams
- 107-3 Devonian Shale
- 107-5 Production enhancement
- 107-6 New Tight Formation
- 107-7 Recompletion Tight Formation

AGENCY USE ONLY

QUALIFIED

RECEIVED

JAN 29 1985

OIL & GAS DIV.
DEPT. OF MINES

Determination Date _____

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's
Well No. McLean #1

API Well No.

47 - 001 - 1760
State County Permit

WELL CLASSIFICATION FORM

HIGH COST GAS WELL - DEVONIAN SHALE

NGPA Section 107

DESIGNATED AGENT George Williams

ADDRESS P. O. Box 902
Belington, WV 26250

LOCATION Elevation 1860'

WELL OPERATOR Eastern Intermountain Energy Watershed Sugar Creek

ADDRESS P. O. Box 902 Dist. Barker County Barbour Quad. Belington
Belington, WV 26250

Gas Purchase
Contract No. _____

GAS PURCHASER Tenneco

Meter Chart Code _____

ADDRESS Tenneco Bldg, P. O. Box 2511

Date of Contract _____

Houston, TX 77001

* * * * *

Date surface drilling began: 7-28-85

Indicate the bottom hole pressure of the well and explain how this was calculated.

$BHP = P_w e^{xGLS} = 1720\#$

AFFIDAVIT

I, Jerry Poling, having been first sworn according to law, state that I have calculated the percentage of footage of the producing interval which is not Devonian Shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described in subparagraph (3)(i) or (3)(ii)(A) has been filed, or as indicated by the report described in subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high-cost natural gas well.

STATE OF WEST VIRGINIA

COUNTY OF Barbour, TO-WIT:

I, Flora E. Williams, a Notary Public in and for the state and county aforesaid, do certify that Jerry Poling, whose name is signed to the writing above, bearing date the 28 day of January, 1985, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 28 day of January, 1985.
My term of office expires on the 7 day of March, 1993.

(NOTARIAL SEAL)

Flora E. Williams
Notary Public

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT

Operator: Eastern Intermountain Energy

Agent: George Williams

Type Determination being sought - 107 (Devonian Shale)

API Well No.: 47-001-1760

Well Name: McClellan

West Virginia Office of Oil and Gas

County: Barbour

References: SJA File No.

Vol. _____ Page _____ Line _____

I. NOTE: A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shale Base Line) and that log is included with this analysis.

II. Gamma Ray elevation indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line = 140 * API Units

2. Remarks:

Shale line taken from 4290 to td. where
borehole is clean and shale is well developed

B. Gamma Ray Log Value at 0.7 x Value at Base Line

1. GR Value = 140 * API Units

2. Calculation: $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (} \underline{140} \text{ *)} = \underline{98} \text{ API Units}$

III. Intervals with GR index less than 0.7 x (Value at Base Line):

Interval		Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
From**	To***		
2325	3000	675	58
3000	4000	1000	15
4000	5000	1000	6
5000	5404	404	0

Total Devonian Interval 3079

Total Less Than 0.7 (Shale Base) 79

% Less Than 0.7 (Shale Base Line) = $\frac{79}{3079} \times 100 = \underline{2.57} \%$

*Marked on log included with analysis.

**Top of Devonian Section Recorded on First Interval in this Column.

***Lesser of TD or Bottom of Devonian Section Recorded as last Interval in this Column.

STATE OF WEST VIRGINIA,

COUNTY OF Barbour

to-wit:

I, William B. Bennett, a Notary Public in and for said County of Kanawha,

do certify that Alva McLean is signed to the writing hereto annexed bearing date 26 February, whose name

has this day acknowledged the same before me, in my said County. A. D., 1982

Given under my hand and official seal, this 26 day of February, A. D., 1982

William B. Bennett
Notary Public in and for Kanawha County, W. Va.

My commission expires 6 Sept 1985

23-24-28
BARBOUR COUNTY, W.V.
FILED OR RECORDED

1982 FEB 26 PM 12:05

90 PAGE 55
GLENNIA G. PROPST CLERK
FEE PAID \$2.00
GLENNIA G. PROPST
CLERK BARBOUR COUNTY COURT

STATE OF WEST VIRGINIA, County of Barbour, To-wit:

I, Glenna G. Propst, Clerk of the County Commission of said County, do hereby certify that the foregoing writing, with Certificate thereto annexed, was this day produced to me in my office and duly admitted to record.

Witness my hand. Glenna G. Propst CLERK.

Notary Public in and for _____ County, W. Va.

My commission expires _____

Lease No. _____	Page No. _____
Oil and Gas Lease	
FROM	
P. O. Address _____	County _____
State of _____	TO
Date _____, 19____	
Term _____ No. of Acres _____	
Location _____ District _____	
State of _____	County _____
Rec'd for Record _____, 19____	
Recorded _____, 19____	
In Book _____ Page _____	
County _____	Recorded _____

STATE OF WEST VIRGINIA,

COUNTY OF _____

to-wit:

I, Clara Ann Bellinghew, a Notary Public in and for said County of _____,

do certify that _____ signed to the writing hereto annexed bearing date _____, whose name

has this day acknowledged the same before me, in my said County. A. D., 19____

Given under my hand and official seal, this _____ day of _____, A. D., 19____

Notary Public in and for _____ County, W. Va.

My commission expires _____

This Lease, Made and entered into this 26 day of February, 1982, by and between Alva McLean Rt. 2 Belington, WV 26250

of the County of Barbour and State of WV, lessor and Eastern Intermountain Energy, Ltd, lessee, WITNESSETH:

The lessor in consideration of \$105.00 dollar paid by the lessee, the receipt of which is hereby acknowledged, do hereby grant, demise and let unto the lessee all the oil and gas and casing-head gas in and under the following described tract of land, and also the said tract of land for the purpose and with the exclusive right of drilling and operating thereon for said oil and gas, together with the right of way, and the right to lay pipes to convey water, oil, steam, and gas, and to have sufficient water and gas from the premises to drill and operate wells thereon, also such other privileges as are necessary for conducting said operations, and the right to remove at any time all property placed thereon by the lessee.

Lessee to pay a reasonable damage to growing crops by said operations. All that certain tract of land situate in Barker District, Barbour County, and State of WV, on the waters of Sugar Creek

bounded and described as follows, to-wit: On the North by lands of 15 Acres described in deed book # 158 Page, 296 Deed records of Barbour County, West Virginia On the East by lands of On the South by lands of On the West by lands of containing 15 ACRES, more or less

but no wells are to be drilled within 200 feet of the dwelling house or barn now on the premises without the lessor's consent.

To have and to hold the same unto the lessee for the term of 30 years from the date hereof and as much longer as the said premises are being operated for the production of oil or gas, or as oil or gas is found in paying quantities thereon, yielding and paying to the lessor the one-eighth (1/8) part or share of all the oil saved from that produced on the premises, delivered free of expense into tank or pipe line to the lessor's credit; and should any well produce gas or casing-head gas in sufficient quantities to justify marketing the same in Gas pipe line, the lessor shall be paid at the rate of one-eighth (1/8) of the market price for such gas so long as the gas therefrom is conveyed and sold off the premises, payable monthly as marketed.

Said lessee shall not be required in any event, to increase the rate of said gas well payments, or said royalty of oil by reason of any royalty or interest in said oil or gas that may have been heretofore sold, reserved or conveyed by said lessor or their predecessors in title or otherwise.

Provided, however, that this lease shall become null and void and all the rights thereunder shall cease and determine unless one well shall be completed on the said premises within 6 months from the date hereof, or unless the lessee shall pay at the rate of two hundred (\$200.00) Dollars in advance for each additional month such completion is delayed from the time above mentioned for the completion of said well until one well is completed.

All payments may be made direct to Alva McLean or deposited to credit in or by check mailed to at P. O. County

State of WV or in the same manner to who is hereby appointed Agent for such purpose; and 10 days grace shall be allowed on all payments that may become due under provisions of this lease.

If gas is found in paying quantities to the lessee and conveyed from the premises, the lessor may have 150,000 feet of gas annually, free of cost by laying the necessary line and making connections at lessor's cost at such point as may be designated by the lessee for use. Eastern Intermountain Energy will furnish all Culvert and lines, I maintain Rd. in the mansion house on said premises, to be used with economical appliances subject to the approval of the lessee; said gas to be used at lessor's own risk and lessee not to be in any way liable for insufficient supply of gas caused by the use of pumping stations, breakage of lines or other causes, but nothing herein shall prevent the lessee from abandoning any well or wells and removing the pipe therefrom.

Lessee at his option may combine the above property with other adjacent tracts for a drilling unit of not more than three hundred (300) acres on which unit one well may be drilled. If it is productive all royalties shall be pro-rated according to acreage of each tract in the unit and no delay rental shall be due to lessor as long as such production continues, but lessor may have free gas from such unitized well as heretofore provided, and Lessor agrees to give free right of way for service lines of all other members of the unit.

It is further agreed, that the second party shall, by paying all moneys due, have the right to surrender this grant at any time to the first part and thereafter be fully discharged from any and all claims whatsoever arising from any neglect or non-fulfillment of the foregoing contract.

It is understood between the parties to this agreement that all conditions between the parties hereunto shall extend to the heirs, executors, successors and assigns of the respective parties.

IN WITNESS WHEREOF, The said parties have hereunto set their hands and seals the day and year first above written.

Signed, sealed and delivered in the presence of Alva m.c. Lean Anna Bell McLean

RECEIVED

MAR 9 - 1983 OIL AND GAS DIVISION WV DEPARTMENT OF MINES (SEAL) (SEAL) (SEAL) (SEAL) (SEAL)

LEASE EXTENSION AGREEMENT

This agreement extends the lease between Alva McLean of Belington, West Virginia and Eastern Intermountain Energy, Ltd. for a period of twelve months in consideration for the sum of two hundred ten (\$10.00) dollars receipt hereby acknowledged.

This original lease is described in Book 90 Page 55 as filed in the office of the County Clerk, Barbour County, West Virginia.

The lease is now valid under all the original terms and conditions for a period of eighteen months from the initial date of this lease.

Alva McLean
Anna Bell McLean

Lessors

RECEIVED

MAR 9 - 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES



RECEIVED
JUN 12 1984
OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia

Department of Mines

Charleston 25305

May 2, 1984

JOHN D. ROCKEFELLER, IV.
Governor

WALTER N. MILLER
Director

Eastern Intermountain Energy
P.O. Box 902
Belington, W.Va. 26250

In Re: Permit No. 001-1760-REN.
Farm: A. McLean
Well No: 1
District: Barker
County: Barbour
Issued 12-5-83

well not yet drilled.

Gentlemen:

Please send an original and two copies of the completion drilling record for the above described well location. This record must be submitted before we can request the district inspector to make a "Final Inspection".

Administrative Regulations - Rule 16.02 Filing of Well Record and Related Forms.

(a) Within 90 days after the completion of permitted work, three copies of Form IV-35, "Well Operator's Report of Drilling, Fracturing and/or Stimulating or Physical Change", containing the geological information required by Code 22-4-8b in the form specified shall be filed with the Administrator, Office of Oil & Gas-Dept. Mines.

Sincerely,

Theodore M. Streit
Administrator-Oil & Gas

TMS/chm

RECEIVED

DEPT. OF MINES
GEOLOGICAL DIVISION

Office of the Director

Washington, D.C.

U.S. GEOLOGICAL SURVEY
WASHINGTON, D.C.

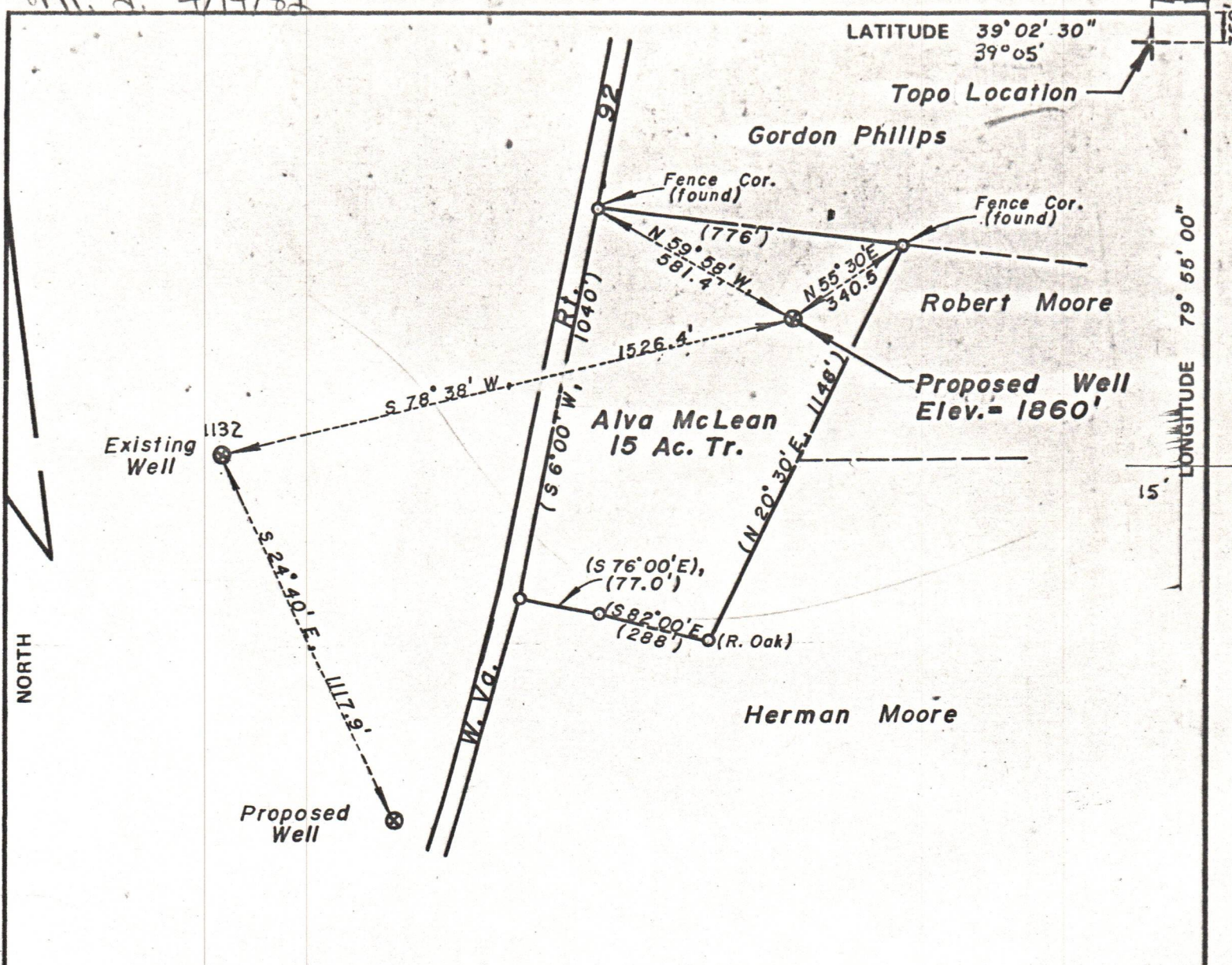
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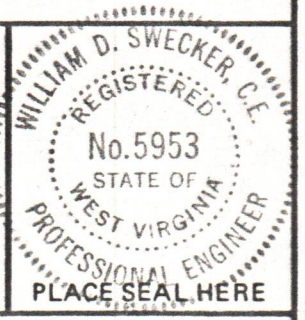


Eastern Intermountain Energy Ltd.
 P.O. Box 2683
 Charleston, W.Va. 25530

Note: Calls In (Parenthesis) Are Deed Calls

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400 Ft.
 MINIMUM DEGREE OF ACCURACY 1 in 1500
 PROVEN SOURCE OF ELEVATION _____

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. Swecker
 R.P.E. 5953 L.L.S. 500



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



DATE _____, 19 82
 OPERATOR'S WELL NO. McLEAN 1
 API WELL NO. 47-001
 STATE Barbour COUNTY 1760-Ren PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 1860 WATER SHED Sugar Creek
 DISTRICT Barker COUNTY Barbour
 QUADRANGLE Belington
 SURFACE OWNER Alva McLean ACREAGE 15.0
 OIL & GAS ROYALTY OWNER Alva McLean LEASE ACREAGE 15.0
 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 Haverty ESTIMATED DEPTH 5500
 WELL OPERATOR Eastern Intermountain En. DESIGNATED AGENT Mr. William E. Bennett
 ADDRESS P.O. Box 2683 ADDRESS P.O. Box 2683
Charleston, W.Va. 25530 Charleston, W.Va. 25530