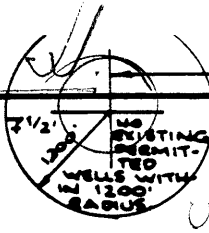


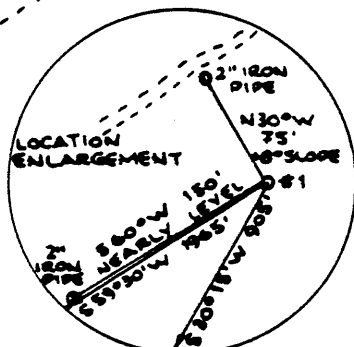
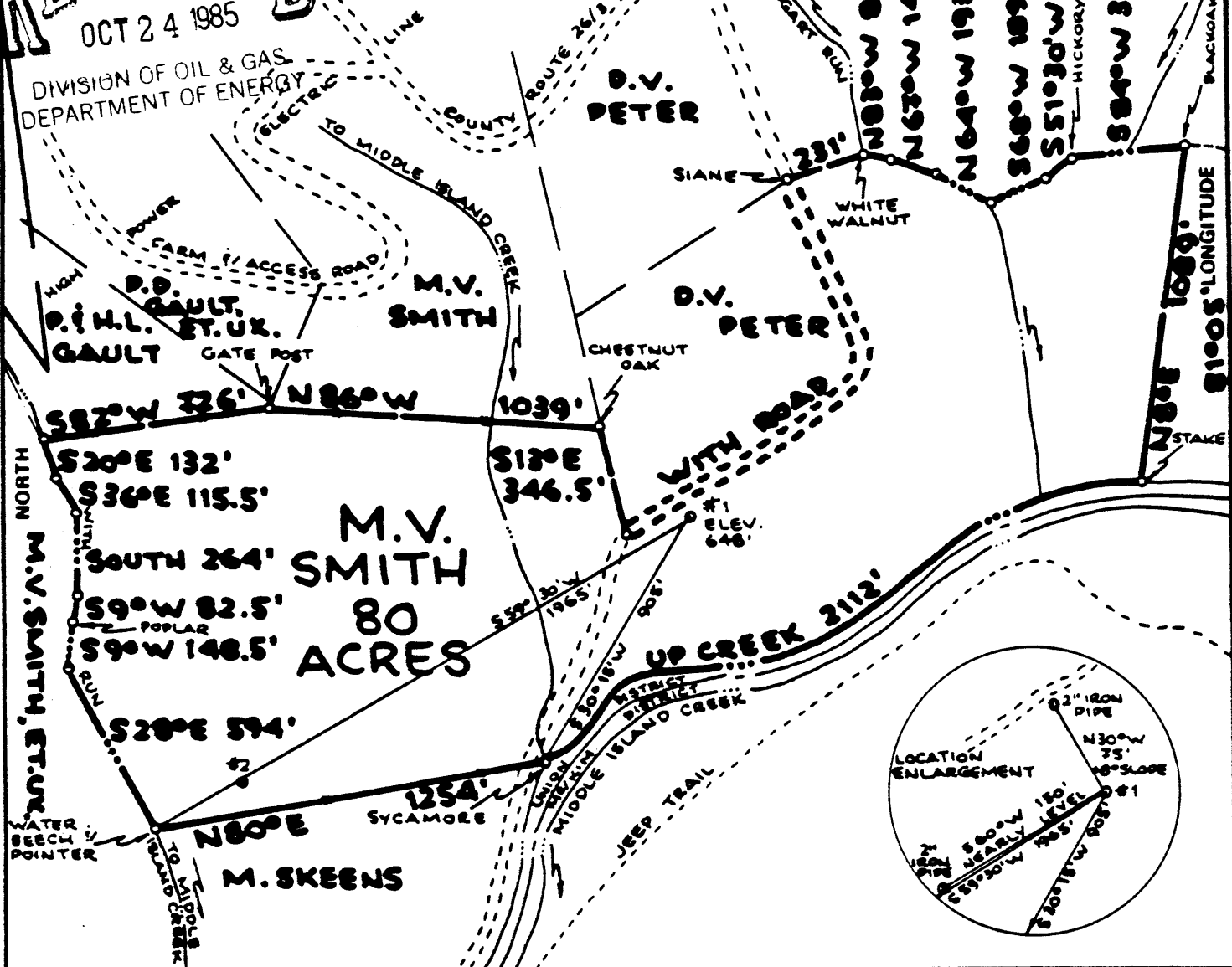
**RECEIVED**  
OCT 24 1985

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY



LATITUDE **39° 25'**

**G.O. BARNHART**



FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE **1" = 500'**  
MINIMUM DEGREE OF ACCURACY **1:200**  
PROVEN SOURCE OF ELEVATION **ROAD INT. ELEV. 1989'**

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) \_\_\_\_\_  
R.P.E. \_\_\_\_\_ L.L.S. **551**

PLACE SEAL HERE

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



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

DATE **11 JUNE**, 19 **84**  
OPERATOR'S WELL NO. **#1**  
API WELL NO. \_\_\_\_\_  
**47** **D 033** - **1860** - **Frac**  
STATE COUNTY PERMIT

OCT 31 1985  
DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
(IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
LOCATION: ELEVATION **648'** WATER SHED **MIDDLE ISLAND CREEK**  
DISTRICT **UNION** COUNTY **PLEASANTS**  
QUADRANGLE **BENS RUN 3 1/2' QUAD** **241 116 C5**  
SURFACE OWNER **M.V. SMITH** ACREAGE **79.58**  
OIL & GAS ROYALTY OWNER **M.V. SMITH** LEASE ACREAGE **80**

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 **S&GW** ESTIMATED DEPTH **2000'**  
WELL OPERATOR **APPALACHIAN ENERGY TECH** AGENT **JOHN RAISER**  
ADDRESS **2188 BARCELONA DRIVE** ADDRESS **1200 CHARLESTON**  
**CLEARWATER, FLORIDA 33516** **397** **CHARLESTON, WY**



Date October 22, 1985  
 Operator's Well No. ROY SMITH 1  
 Farm ROY SMITH  
 API No. 47 - 073 - 1860 - F

State of West Virginia  
 DEPARTMENT OF ENERGY  
 Oil and Gas Division

JUL 21 1986

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

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

LOCATION: Elevation: 648 Watershed MIDDLE ISLAND CREEK  
 District: UNION County PLEASANTS Quadrangle BENS RUN

COMPANY APPALACHIAN ENERGY TECHNOLOGY, INC.  
 ADDRESS 2188 BARCELONA DRIVE, CLR., FL 33546-3711  
 DESIGNATED AGENT JOHN KIZER  
 ADDRESS 1200 CHARLESTON NAT'L PLAZA-CHARLESTON, W. VA. 25305  
 SURFACE OWNER ROY SMITH  
 ADDRESS RT. 2, BOX 452-ST. MARYS, W. VA. 26170  
 MINERAL RIGHTS OWNER ROY SMITH  
 ADDRESS SAME AS ABOVE  
 OIL AND GAS INSPECTOR FOR THIS WORK      
 BOB LOWTHER ADDRESS 3 ST.-MIDDLEBORNE, W. VA.  
 PERMIT ISSUED DECEMBER 2, 1985

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	40'	40'	SURFACE
9 5/8			
8 5/8	250'	250'	SURFACE
7			
5 1/2			
4 1/2	1675	1675	900' FILL UP
3			
2			
Liners used			

DRILLING COMMENCED JULY 20, 1984  
 DRILLING COMPLETED AUGUST 2, 1984  
 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON    

*Frac 2/26/86*

GEOLOGICAL TARGET FORMATION MAXTON Depth 1253 feet  
 Depth of completed well 1675 feet Rotary X / Cable Tools      
 Water strata depth: Fresh 20 feet; Salt 85 feet  
 Coal seam depths: NONE Is coal being mined in the area? NO

OPEN FLOW DATA  
 Producing formation MAXTON Pay zone depth 1254 feet  
 Gas: Initial open flow 20 Mcf/d Oil: Initial open flow 0 Bbl/d  
 Final open flow 10 Mcf/d Final open flow 0 Bbl/d  
 Time of open flow between initial and final tests 24 hours  
 Static rock pressure 500 psig (surface measurement) after 24 hours shut in  
 (If applicable due to multiple completion--)  
 Second producing formation     Pay zone depth     feet  
 Gas: Initial open flow     Mcf/d Oil: Initial open flow     Bbl/d  
 Final open flow     Mcf/d Oil: Final open flow     Bbl/d  
 Time of open flow between initial and final tests     hours  
 Static rock pressure     psig (surface measurement) after     hours shut in

JUL 28 1986

(Continue on reverse side)

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

PERFORATIONS:

1254 - 1288      25 HOLES

FRAC JOB (2/26/86)  
 FOAM FRAC 70% QUALITY  
 10,000 # 20/40 SAND

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
1. UNKNOWN			15	20	FRESH H2O
2. UNKNOWN			85	100	SALT H2O
3. COW RUN			794	810	---
4. 1st SALT			926	1004	GAS SHOW
5. 2nd SALT			1068	1102	---
6. 3rd SALT			1104	1134	GAS SHOW
7. MAXTON SAND			1254	1292	GAS SHOW
8. INJUN SAND			1440	1520	GAS SHOW
9. SQUAW			1540	1606	GAS SHOW

(Attach separate sheets as necessary)

APPALACHIAN ENERGY TECHNOLOGY, INC.

Well Operator

By: Todd Hefter

TODD HEFTER

Date: OCTOBER 22, 1985

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

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JUL 15 1985

OIL & GAS DIVISION  
DEPT. OF MINES



State of West Virginia  
Department of Mines  
Oil and Gas Division

Date 7/8/85  
Operator's  
Well No. R. SMITH 1  
Farm ROY SMITH  
API No. 47 - 073 - 1860

IV-35  
(Rev 8-81)

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

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

LOCATION: Elevation: 648' Watershed MIDDLE ISLAND CREEK  
District: UNION County PLEASANTS Quadrangle BENS RUN

COMPANY APPALACHIAN ENERGY TECHNOLOGY, INC.  
ADDRESS 2188 BARCELONA DRIVE, CLEARWATER, FL 33546  
DESIGNATED AGENT JOHN KAISER  
ADDRESS 1200 CHARLESTON NAT'L PLAZA, CHARLESTON, W. VA. 25305  
SURFACE OWNER ROY SMITH  
ADDRESS ROUTE 2, BOX 452, ST. MARYS, W.VA. 26170  
MINERAL RIGHTS OWNER ROY & JEANETTE SMITH  
ADDRESS RT.2, BOX 452, ST. MARYS, W.VA. 26170  
OIL AND GAS INSPECTOR FOR THIS WORK      
BOB LOWTHER ADDRESS 3 ST. MIDDLEBORNE, W.VA.  
PERMIT ISSUED JULY 11, 1985  
DRILLING COMMENCED JULY 20, 1985  
DRILLING COMPLETED AUGUST 2, 1985  
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"	40'	40'	SURFACE
9 5/8			
8 5/8	250'	250'	SURFACE
7			
5 1/2			
4 1/2	1675	1675	900' FILL UP
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION SQUAW Depth 1550 feet  
Depth of completed well 1675 feet Rotary X / Cable Tools      
Water strata depth: Fresh 20 feet; Salt 85 feet  
Coal seam depths: NONE Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation SQUAW Pay zone depth 1650 feet  
Gas: Initial open flow 30 Mcf/d Oil: Initial open flow 1 Bbl/d  
Final open flow (15) Mcf/d Final open flow (1/2) Bbl/d  
Time of open flow between initial and final tests 24 hours  
Static rock pressure 740 psig (surface measurement) after 240 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

Dry well shows oil and gas

know way can not drill in the future

(Continue on reverse side)

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

SQUAW SAND  
1540 - ~~1592~~ 39 shots  
600 BBL WATER FRAC  
13000# 20/40 SAND

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
1.	UNKNOWN		15	20	FRESH H2O
2.	UNKNOWN		85	100	SALT H2O
3.	COW RUN		794	810	-
4.	1st SALT		926	1004	GAS SHOW
5.	2nd SALT		1068	1102	-
6.	3rd SALT		1104	1134	GAS SHOW
7.	MAXTON SAND		1254	1292	GAS SHOW
8.	INJUN SAND		1440	1520	GAS SHOW
9.	SQUAW		1540	1606	GAS SHOW
				TD 1675	
				Squaw	
				@ TD.	

(Attach separate sheets as necessary)

APPALACHIAN ENERGY TECHNOLOGY, INC.

Well Operator

By: Todd Hefter

Date: TODD HEFTER

JULY 11, 1985

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations including



1) Date: June 6, 19 84  
 2) Operator's Well No. Roy Smith #1  
 3) API Well No. 47 - 073 - 1860  
 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 XX / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X /)
- 5) LOCATION: Elevation: 648' Watershed: Middle Island Creek (058)  
 District: Union County: Pleasants Quadrangle: Bens Run
- 6) WELL OPERATOR Appalachian Energy Technology DESIGNATED AGENT John Kaiser  
 Address 2188 Barcelona Drive Address 1200 Charleston National  
Clearwater, FL 33516 Charleston, WV 25305 Plaza
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Bob Lowther  
 Address 3rd Street  
Middlebourne, WV 26149
- 9) DRILLING CONTRACTOR: Name S&B Drilling Co.  
 Address P.O. Box 1170  
Cambridge, OH 43725
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate XX  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Squaw
- 12) Estimated depth of completed well, 2000 feet
- 13) Approximate strata depths: Fresh, 25 feet; salt, N/A feet.
- 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes \_\_\_\_\_

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 JUL 1 1984

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			
Conductor	11 3/4			X		40'				Kinds
Fresh water										
Coal										Sizes
Intermediate	8 5/8		20#	X		250'	250'	to surface		NEAT
Production	4 1/2		10.5#	X		2000'	2000'	1000' fill		4 1/2" set or 45 rdy.
Tubing										by rule 15.01
Liners										Perforations:
										Top Bottom

OIL & GAS DIVISION  
 DEPT. OF MINES

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-073-1860

July 11, 19 84  
 Date

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

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.  
 Permit expires July 11, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

CASH DEPOSIT HELD BY TREASURER	Agent: <u>LS</u>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fee: <u>103</u>
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Margaret J. Hase  
 Administrator, Office of Oil and Gas

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

File

7/85

**RECEIVED**  
OCT 24 1985



1) Date: October 22, 1985  
 2) Operator's Well No. Roy Smith # 1  
 3) API Well No. 47 - 073 - 1860 W Frac  
 State County Permit

**RECEIVED**  
OCT 31 1985

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

- 4) WELL TYPE: A Oil XX / Gas XX /  
 B (If "Gas", Production \_\_\_\_\_ / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow XX)
- 5) LOCATION: Elevation: 648 Watershed: Middle Island District: Union County: Pleasants Quadrangle: Bens Run
- 6) WELL OPERATOR Appalachian Energy Technology, Inc CODE: 2330 7) DESIGNATED AGENT John Kaiser  
 Address 2188 Barcelona Drive Address 1200 Charleston Nat'l Plaza  
Clearwater, Florida 33546 Charleston, West Virginia 25305
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Bob Lowther Address 3 rd Street  
Middlebourne, West Virginia 26149
- 9) DRILLING CONTRACTOR: Name S & B Drilling Address P.O. Box 1170  
Cambridge, Ohio 43725
- 10) PROPOSED WELL WORK: Drill \_\_\_\_\_ / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate XX /  
 Plug off old formation \_\_\_\_\_ / Perforate new formation XX /  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Maxton Sand 325
- 12) Estimated depth of completed well, 1675 feet
- 13) Approximate strata depths: Fresh, 20 feet; salt, 80 feet.
- 14) Approximate coal seam depths: N/A 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	Left in well		
Conductor	11 3/4			XX		40 feet	40 feet	Surface	Kinds <u>EXISTING</u> see well record Depths set:
Fresh water									
Coal									
Intermediate	8 5/8		20	XX		250'	250'	Surface	
Production	4 1/2		10.5	XX		1675'	1675'	160 sacks	
Tubing									Perforations:
Lin...									Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-073-1860-Frac Date December 2 19 85

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

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

Permit expires December 2, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee	WPCP	S&E	Other
<u>C.O.</u>	<u>RB</u>	<u>MN</u>	<u>MN</u>	<u>160</u> <u>161</u>	<u>MN</u>	<u>MN</u>	

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

[Signature]  
 Director, Division of Oil and Gas

File

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