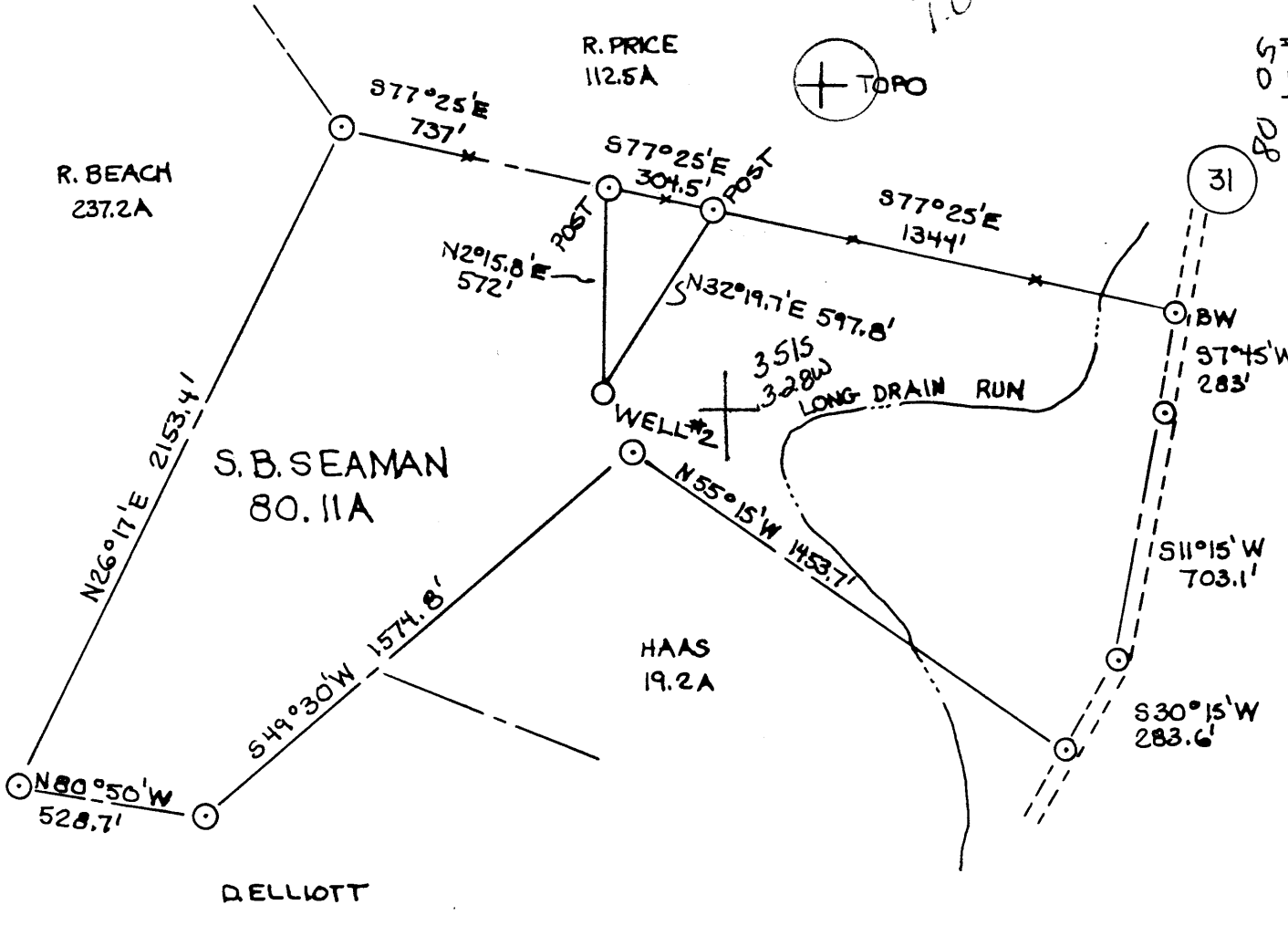


5600 39' 45

CODE CARD PLOT

LATITUDE 39° 42' 30"

NORTH



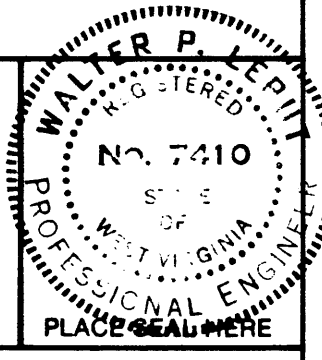
LONGITUDE 80° 07' 30"

LANDMARK POINTS  
 N3°W 185' TO 6" OAK  
 S75°E 104' TO 8" OAK

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

FILE NO. 2-6-85  
 DRAWING NO. 2-6-85  
 SCALE 1"=500'  
 MINIMUM DEGREE OF ACCURACY 1 IN 2000  
 PROVEN SOURCE OF ELEVATION ☐ OF ROADS  
3800' SW (965)

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. Lepitt  
 R.P.E. 7410 I.L.S. \_\_\_\_\_



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE FEB. 8, 19 85  
 OPERATOR'S WELL NO. \_\_\_\_\_  
 API WELL NO. 47-061-0766  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1050 WATERSHED LONG DRAIN RUN  
 DISTRICT CLAY 3 256 COUNTY MONONGALIA  
 QUADRANGLE BLACKSVILLE 75 Q15' NC2  
 SURFACE OWNER SARA B. SEAMAN 013 ACREAGE 80.11  
 OIL & GAS ROYALTY OWNER MERL D. WRIGHT et ux LEASE ACREAGE 80.11  
 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 ELK ESTIMATED DEPTH 5600  
 WELL OPERATOR HYDROCARBON EXPLORATION INC. DESIGNATED AGENT AL SORCAN  
 ADDRESS 392 PO DRAWER 976 ADDRESS PO DRAWER 976  
BUCKHANNON W.V.A. BUCKHANNON W.V.A.

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

COUNTY NAME PERMIT

6-6 Mooresville (65)



IV-35  
(Rev 8-81)

**RECEIVED**

MAY 13 1985  
OIL & GAS DIV.  
DEPT. OF MINES

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date 4-11-85  
Operator's Seaman # 2  
Well No. Seaman # 2  
Farm S. B. Seaman  
API No. 47-061 - 0766

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

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

LOCATION: Elevation: 1050 Watershed Long Drain Run  
District: Clay County Nonongalia Quadrangle Blacksville

COMPANY Hydrocarbon Exploration, Inc.  
ADDRESS P.O. Drawer 976, Buckhannon, WV26201  
DESIGNATED AGENT Alvin Sorcan  
ADDRESS Rt. 4, Box 444, Buckhannon, WV26201  
SURFACE OWNER S. B. Seaman  
ADDRESS Core, WV 26529  
MINERAL RIGHTS OWNER M. D. Wright  
ADDRESS 378 Cobun Ave., Morgantown, WV  
OIL AND GAS INSPECTOR FOR THIS WORK Don Ellis ADDRESS Fairmont, WV 26554  
PERMIT ISSUED 2-28-85  
DRILLING COMMENCED 3-21-85  
DRILLING COMPLETED 4-3-85

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1221	1221	To Surface 300sks
7			
5 1/2			
4 1/2		5568	600sks
3			(3300-5568)
2			
Liners used			

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

GEOLOGICAL TARGET FORMATION Elk Depth 5450 feet  
Depth of completed well 5656 feet Rotary X / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 845 feet; Salt 1585 feet  
Coal seam depths: 308,392 Is coal being mined in the area? Yes

OPEN FLOW DATA

Producing formation Elk, Benson Pay zone depth 4943-5461 feet  
Gas: Initial open flow 231 Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 290 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 1450 psig (surface measurement) after 72 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation Bradford, Balltown Pay zone depth 4189-4266 feet  
Gas: Initial open flow 231 Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 290 Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 1450 psig (surface measurement) after 72 hours shut in

(Continue on reverse side)  
MAY 28 1985

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

4-18-85	Frac.	3 Stage	H2O w/CO2 Assist				
FORM	PERF	HOLES	BKRD	H2O	SAND	ISIP	CO2
Elk-Benson	B-4998/Elk (4943-5461)	24	2950	796	57,500	2990	14 Tons
Bradford	(4189-4266)	14	3100	475	41,200	2100	14 Tons
Ball-Speech.	(3738-3986) <sup>3804-</sup> <sub>3804</sub> <sup>3804-</sup> <sub>3804</sub>	14	3700	394	30,500	1940	12 Tons

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Clay	Br	S	0	10	H2O @ 845, 1585
Sp & Sh	Br	S	10	80	
Sand	Br	M	80	308	
Coal	Bl	S	308	310	Coal @ 308, 392
Sh	Gr	S	310	392	
Coal	Bl	S	392	395	
Sh	Rd & Gr	S	395	1255	
Sand	W	H	1255	1305	
Sdy Sh	Br	M	1305	1815	
Big Lime	Gr	H	1815	1852	
Big Injun	W	H	1852	2076	
Sh	Gr	S	2076	2148	
Sd	W	H	2148	2185	
Sh	Gr	S	2185	2480	
Sd&Sh	Br	M	2480	3050	
Sh	Gr	S	3050	3724	
Speech.	Br	M	3724	3804	
Balltown	Br	M	3804	4186	
Bradford	Br	M	4186	4708	Show Gas 4218
Riley	Br	M	4708	4942	
Benson	Br	M	4942	4998	
Sh	Gr	S	4998	5420	
Elk	Br	M	5420	5440	Show Gas 5433
Sh	Gr	S	5440	5656	
Total Depth				5656	Check Gas @ T.D. 231 MCF

Elk @ TD.

(Attach separate sheets as necessary)

Hydrocarbon Exploration, Inc.  
Well Operator

By: Alvin [Signature]

Date: 5-10-85

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."

**RECEIVED**

FEB 15 1985



1) Date: February 14, 1985  
 2) Operator's Well No. Seaman #2  
 3) API Well No. 47 - 061 - 0766  
 State                      County                      Permit                     

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

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

- 4) WELL TYPE: A Oil            / Gas X /  
 B (If "Gas", Production X / Underground storage            / Deep            / Shallow X /)
- 5) LOCATION: Elevation: 1050 Watershed: Long Drain Run  
 District: Clay County: Monongahlia Quadrangle: Blacksville 7 1/2
- 6) WELL OPERATOR Hydrocarbon Exploration, Inc. 7) DESIGNATED AGENT Al Sorcan  
 Address P.O. Drawer 976 Address P.O. Drawer 976  
Buckhannon, WV 26201 23625 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Don Ellis Name                       
 Address 2604 Crab Apple Lane Address                       
Fairmont, WV 26554
- 10) PROPOSED WELL WORK: Drill X / Drill deeper            / Redrill            / Stimulate X /  
 Plug off old formation            / Perforate new formation             
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, ELK
- 12) Estimated depth of completed well, 5600 feet
- 13) Approximate strata depths: Fresh, 110 feet; salt, 690 feet.
- 14) Approximate coal seam depths: 320, 410 Is coal being mined in the area? Yes            / No X
- 15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used			
Conductor	11 3/4				X	<u>440 40</u>	<u>440</u>	<u>Put in 0.75 fms by rule</u>
Fresh water								<u>15.05</u>
Coal	8 5/8		23	X		1200	1200	350 sks
Intermediate	8 5/8		23	X		1200	1200	350 sks
Production	4 1/2		10 1/2	X			5600	600 sks
Tubing								<u>as required</u>
Liners								Perforations: Top <u>          </u> Bottom <u>          </u>

**OFFICE USE ONLY  
DRILLING PERMIT**

Permit number 47-061-0766 Date February 28, 1985

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 28, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>78</u>	Agent: <u>MW</u>	Plat: <u>MW</u>	Casing <u>MW</u>	Fee <u>1045</u>
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Margaret J. Hesse  
 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.