

11,400'

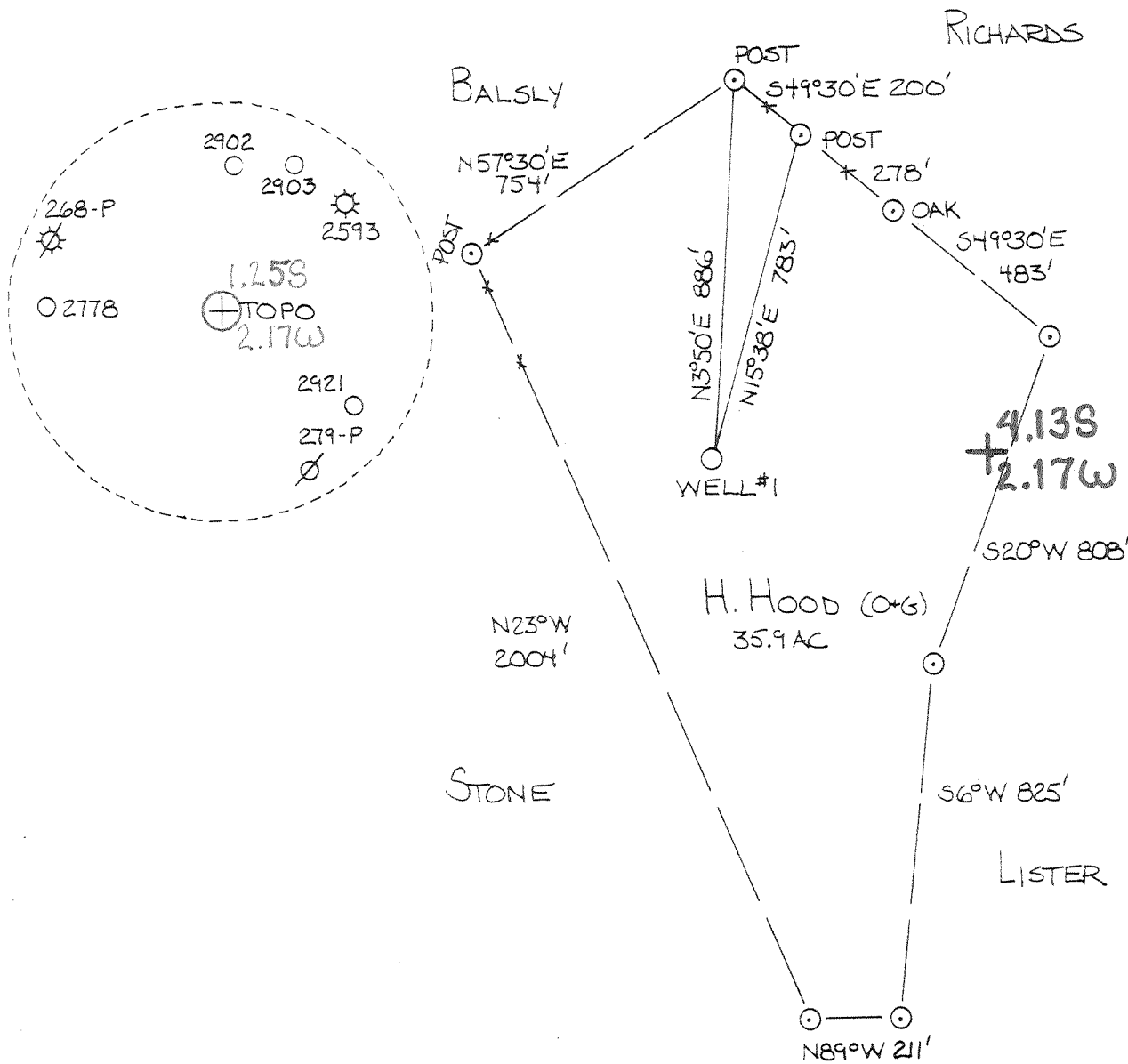
39°25'

LATITUDE 39°22'30"

Plot Card CSD

NORTH

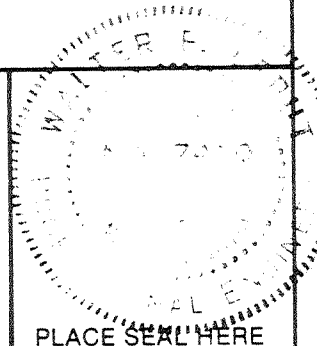
LONGITUDE 80°5'10099



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

FILE NO. 1-18-1984
 DRAWING NO. 1-18-1984
 SCALE 1"=400'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION BM 4500' NORTH WEST (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. _____



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE JAN 18, 19 84
 OPERATOR'S WELL NO. _____
 API WELL NO. _____

47 - 033 - 2985
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1481 WATERSHED SIMPSON CREEK
 DISTRICT SIMPSON 8 COUNTY HARRISON
 QUADRANGLE CLARKSBURG 7 1/2 CLARKSBURG 15' EG
 SURFACE OWNER GEO. KENDAL 847 ACREAGE 35.9
 OIL & GAS ROYALTY OWNER HANNAH HOOD (ETAL) LEASE ACREAGE 35.9
 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) _____

FEB 27 1984

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION 5TH SAND ESTIMATED DEPTH 3000
 WELL OPERATOR HYDROCARBON ENERGIES INC 394 DESIGNATED AGENT AL SORCAN
 ADDRESS PO DRAWER 976 ADDRESS PO DRAWER 976
BUCKHANNON W.VA. 26201 BUCKHANNON W.VA. 26201

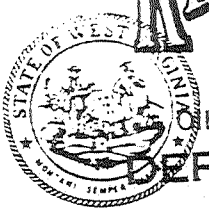
FORM IV-6 (8-78)

COUNTY NAME PERMIT

IV-35
(Rev 8-81)

RECEIVED
SEP 25 1984

OIL & GAS DIVISION
DEPT. OF MINES



MAR 19 1985

OIL & GAS DIVISION

DEPT. OF MINES

Date 8-30-84
Operator's
Well No. Hood # 1
Farm G. Kendal
API No. 47 - 033 - 2985

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

LOCATION: Elevation: 1481 Watershed Simpson Creek
District: Simpson County Harrison Quadrangle Clarksburg 7 1/2

COMPANY Hydrocarbon Energies, Inc.
ADDRESS P. O. Drawer 976
DESIGNATED AGENT Alvin Sorcan
ADDRESS Rt. 4, Box 444, Buckhannon
SURFACE OWNER George Kendal
ADDRESS 1806 Greensburg Ave., Nth Versailles Pa
MINERAL RIGHTS OWNER Hydrocarbon Energies, (et al)
ADDRESS P. O. Drawer 976 Buckhannon
OIL AND GAS INSPECTOR FOR THIS WORK Steve Casey ADDRESS Jane Lew
PERMIT ISSUED 2-23-84
DRILLING COMMENCED 8-15-84
DRILLING COMPLETED 8-21-84

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16			
Cond. Pa 13-10"	30'	30'	None
9 5/8			
8 5/8	1525'	1525	400 sks 0-1525
7			
5 1/2			
4 1/2		3137'	(250 sks 1800-3137)
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION 5th Sand Depth 2940 feet
Depth of completed well 3156 feet Rotary X / Cable Tools
Water strata depth: Fresh 537 feet; Salt NONE feet
Coal seam depths: 538, 820 Is coal being mined in the area? yes

OPEN FLOW DATA
Producing formation 5th Sand Pay zone depth 2946-2990 feet
Gas: Initial open flow 133 Mcf/d Oil: Initial open flow smell Bbl/d
Final open flow (25) Mcf/d Final open flow (6) Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 550 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

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

Frac: 8-21-84 5th Sand H2O W/CO2 Assist
 Form: Perfs Holes Brkd Sand BBLs ISIP CO2
5th sand 2948- 16 2800 59,000# 645 1900# 20tons
 2965

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Shale	G	S	0	20	H2O @ 537
Sand	BR	M	20	317	
Shale	G	S	317	512	Coal @ 538,820
Sand	BR	M	512	538	
Coal	BL	S	538	545	
Shale	GR	S	545	675	
Sand	W	H	675	745	
Shale	G	S	745	820	
Coal	BL	S	820	823	
Shale	G	S	823	1067	
Sand	W	H	1067	1105	
Shale	Rd&G	S	1105	1949	
Big Lime	G	H	1949	2000	
Big Injun	W	H	2000	2104	
Shale	G	S	2104	2510	
50'	W	H	2510	2550	
30'	W	H	2550	2602	
Gordon Stry	BR	M	2602	2717	
Gordan	BR	M	2717	2852	
4th Sand	BR	M	2852	2916	
Shale	G	S	2916	2946	
5th Sand	W	H	2946	2990	
Shale	G	S	2990	3156	Gas @ T.D. 133 MCF
Total Depth				3156	

(Attach separate sheets as necessary)

Well Operator

By: Alvin Soren

Date: _____

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."



1) Date: January 24, 19 84
 2) Operator's Well No. Hood # 1
 3) API Well No. 47 - 033 - 2985
 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 X / Gas _____
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow X)
- 5) LOCATION: Elevation: 1481 Watershed: Simpson Creek
 District: Simpson County: Harrison Quadrangle: Clarksburg 7 1/2
- 6) WELL OPERATOR Hydrocarbon Energies, INC. DESIGNATED AGENT Al Sorcan
 Address P. O. Drawer 976 Address Rt. 4, Box 444
Buckhannon, WV 26201 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Steve Casey
 Address Jane Lew 884-7470
- 9) DRILLING CONTRACTOR: Name _____ Address _____
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, 5 th Sand
- 12) Estimated depth of completed well, 3000 feet
- 13) Approximate trata depths: Fresh, 30 feet; salt, 540 780 feet.
- 14) Approximate coal seam depths: 455, 505, 590, 780 Is coal being mined in the area? Yes _____ / No X
- 15) CASING AND TUBING PROGRAM

RECEIVED
 FEB 2 - 1984

OIL & GAS DIVISION
DEPT. OF MINES

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					30			Kinds
Fresh water									
Coal	8 5/8		23	X		1550	1550	to Surface	Sizes <u>NEAT</u>
Intermediate	8 5/8		23	X		1550	1550	to Surface	
Production	4 1/2		10 1/2	X			3000	350 sks	Depths set
Tubing									<u>or as req. by rule 15.01</u>
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-033-2985 Date February 23, 19 84

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 23, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: BLANKET	Aggr: <u>LM</u>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fee: <u>311</u>
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Margaret J. Hasse
 Administrator, Office of Oil and Gas

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