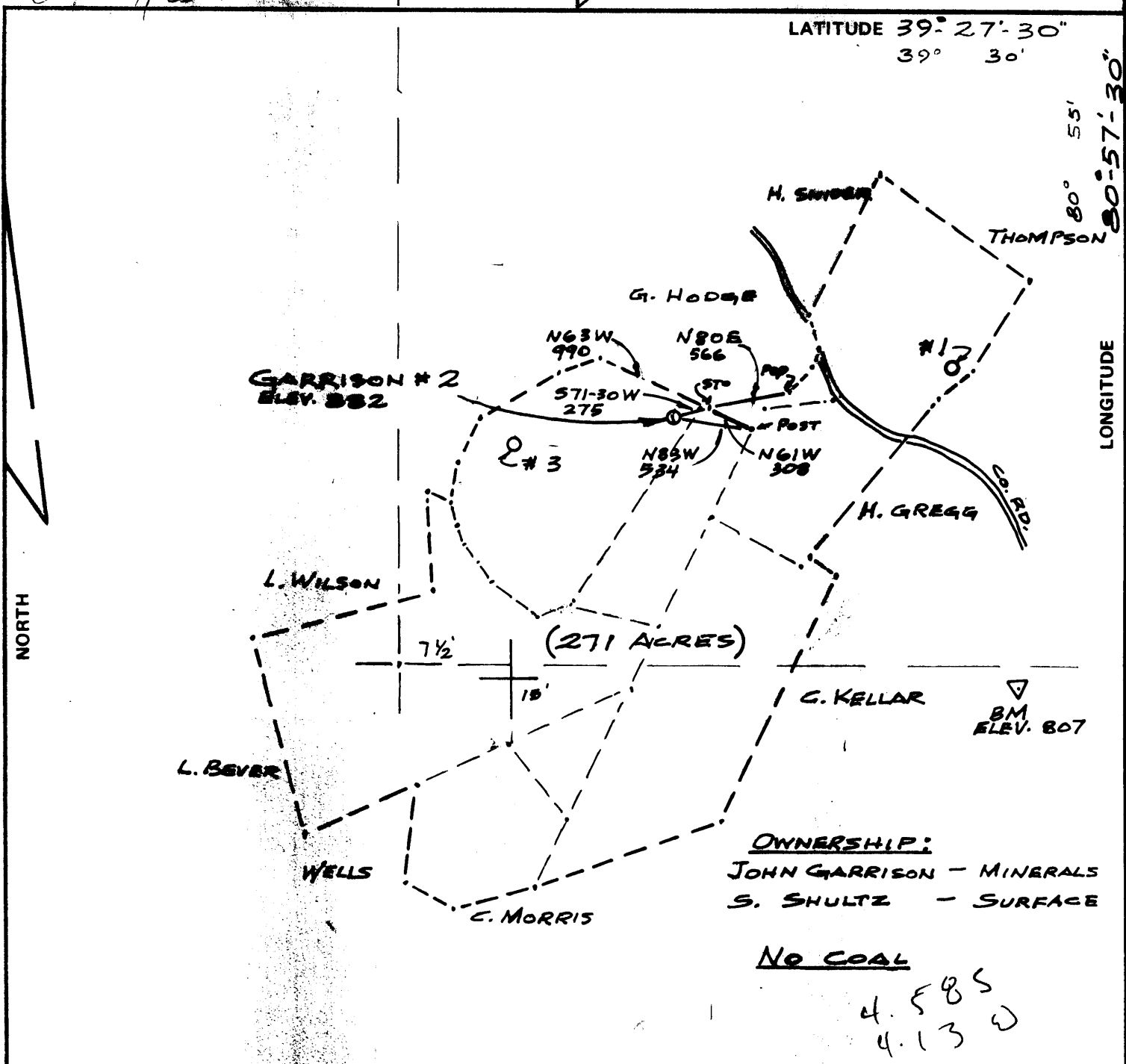


66 7/23

10,050

LATITUDE 39° 27' 30"
39° 30'

LONGITUDE 80° 15' 00"
80° 15' 30"



OWNERSHIP:
 JOHN GARRISON - MINERALS
 S. SHULTZ - SURFACE

NO COAL
 4.585
 4.13 W

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION BM 807
ROAD INTERSECTION

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) Darrell R. Boice
 R.P.E. _____ L.L.S. 667

PLACE SEAL HERE

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



DATE 7-20, 1981
 OPERATOR'S WELL NO. 2
 API WELL NO. 47-095-0928
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

Free. Cancelled.

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 882 WATER SHED SUGAR CREEK
 DISTRICT MEADE COUNTY TYLER
 QUADRANGLE MIDDLEBOURNE 7 1/2 WU NW
 SURFACE OWNER STANLEY SHULTZ ACREAGE 271
 OIL & GAS ROYALTY OWNER JOHN M. GARRISON LEASE ACREAGE 271
 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 SHALE ESTIMATED DEPTH 4000'
 WELL DESIGNATED AGENT C. R. ALLEN
 ADDRESS Energy Management Services, Inc. _____ ADDRESS Randy Farkus
 P.O. Box 4428 _____ 137 Willow Branch Road
 Parkersburg, W.Va. 26104 _____ Parkersburg, WVa. 26101

5706

TYLER 0928-FRAC

el 7/23

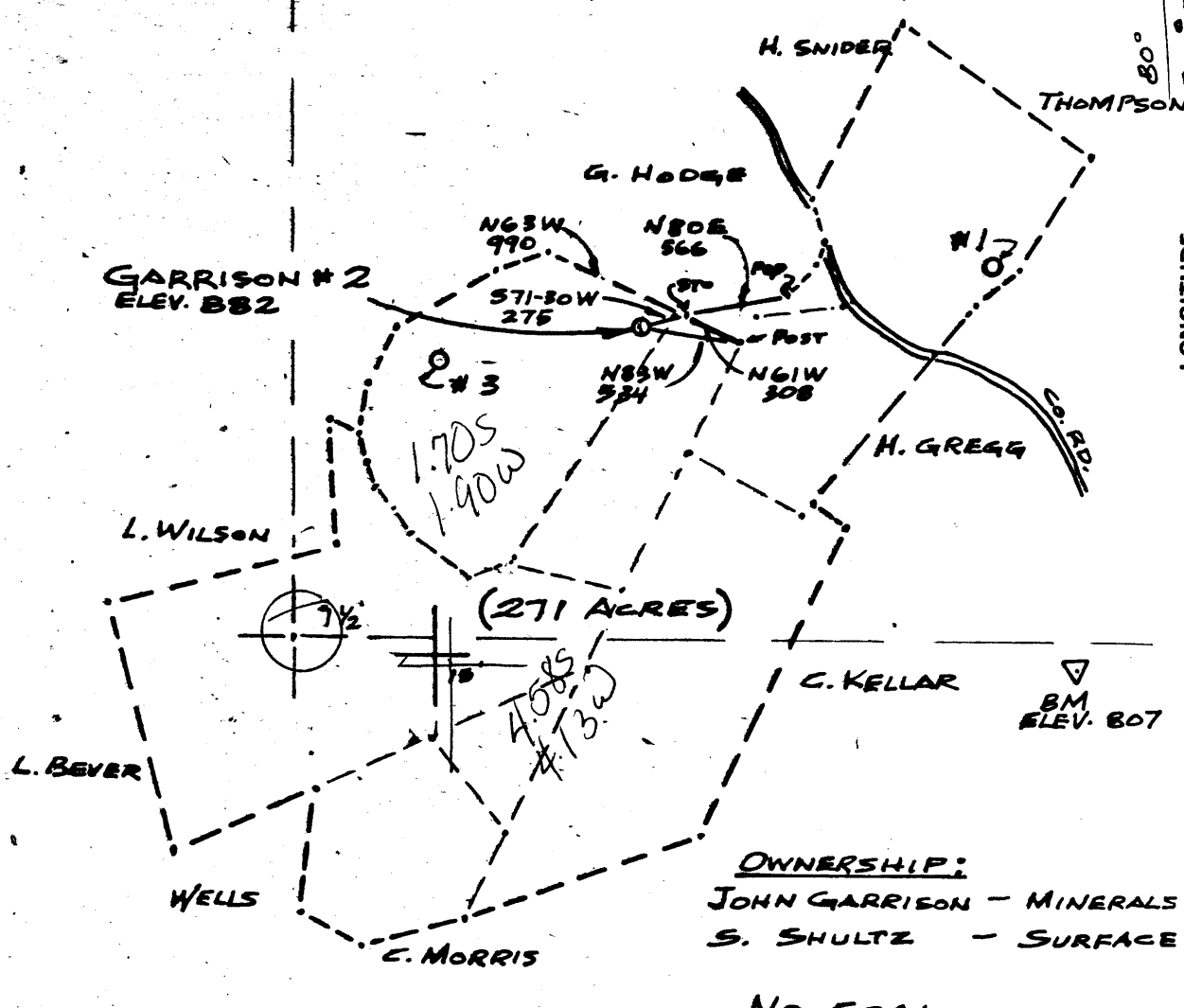
10,050

CODE _____ CARD _____ PLOT _____

LATITUDE 39° 27' 30"
39° 30'

LONGITUDE 80° 57' 30"
80° 55'

NORTH



OWNERSHIP:
 JOHN GARRISON - MINERALS
 S. SHULTZ - SURFACE

NO COAL

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
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(SIGNED) Darrell R. Boice
 R.P.E. _____ L.L.S. 667

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



DATE 7-20, 19 81
 OPERATOR'S WELL NO. 2
 API WELL NO. 47-095-0928-Frac
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 882 WATER SHED SUGAR CREEK
 DISTRICT MEADE 4 COUNTY TYLER
 QUADRANGLE MIDDLEBOURNE 7k 470 133 NW1
 SURFACE OWNER STANLEY SHULTZ ACREAGE 271
 OIL & GAS ROYALTY OWNER JOHN M. GARRISON LEASE ACREAGE 271
 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) _____

DEC 16 1985

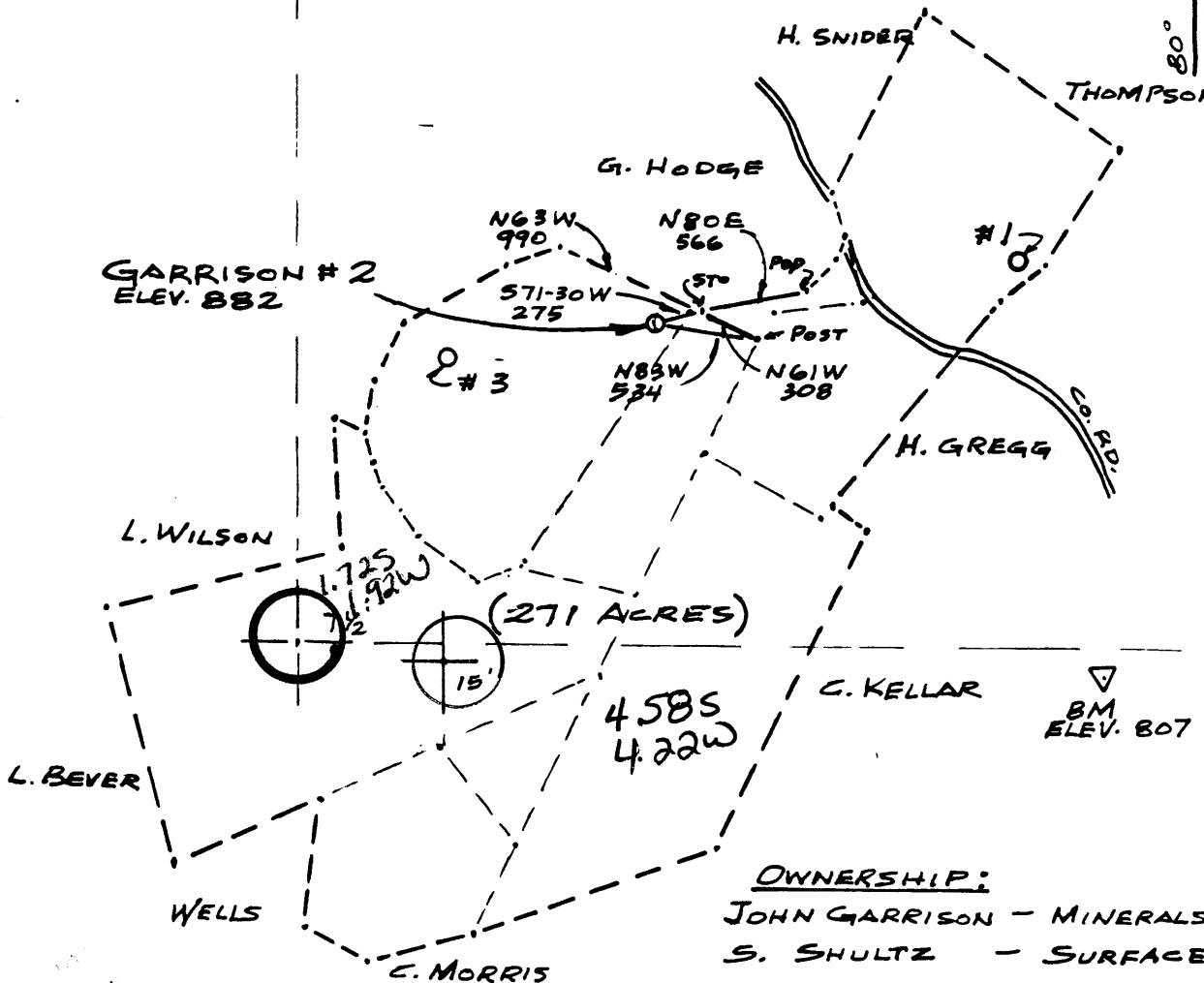
PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION SHALE ESTIMATED DEPTH 4000'
 WELL 440 DESIGNATED AGENT C. R. ALLEN
 ADDR1 Energy Management Services, Inc. ADDRESS Randy Farkus
 P.O. Box 4428 137 Willow Branch Road
 Parkersburg, W.Va. 26104 Parkersburg, W.Va. 26101

LATITUDE 39° 27' 30"
39° 30'

80° 57' 30"
80° 55'

LONGITUDE

NORTH



OWNERSHIP:
JOHN GARRISON - MINERALS
S. SHULTZ - SURFACE

NO COAL

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION BM 807
ROAD INTERSECTION

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) Darrell R. Boice
 R.P.E. _____ L.L.S. 667

PLACE SEAL HERE

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

FORM IV-6 (8-78)



DATE 7-20, 19 81
 OPERATOR'S WELL NO. 2
 API WELL NO. 47-095-0928
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 882 WATER SHED SUGAR CREEK
 DISTRICT MEADE COUNTY TYLER
 QUADRANGLE MIDDLEBOURNE 7 1/2 West Union NW
 SURFACE OWNER STANLEY SHULTZ ACREAGE 271
 OIL & GAS ROYALTY OWNER JOHN M. GARRISON LEASE ACREAGE 271
 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) _____

AUG 11 1981

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION SHALE ESTIMATED DEPTH 4000'
 WELL OPERATOR OIL IND LP, Inc DESIGNATED AGENT C. R. ALLEN
 ADDRESS 1602 GRAND CENTRAL AVE ADDRESS 1602 GRAND CENTRAL AVE
VIENNA, W. VA 26105 VIENNA, W. VA 26105

RECEIVED
 IV-33
 (Reg. 81) JUN 6 - 1984
 OIL & GAS DIVISION
 DEPT. OF MINES



State of West Virginia
 Department of Mines
 Oil and Gas Division

Date 5-31-84
 Operator's _____
 Well No. Garrison #2
 Farm John Garrison
 API No. 047 - 095 - 0928

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: 882' Watershed Sugar Creek
 District: Meade County Tyler Quadrangle Middlebourne 7.5'

COMPANY Oil Industries Ltd. Inc.
 ADDRESS 1602 Grand Central Avenue, Vienna, WV
 DESIGNATED AGENT C.R. Allen
 ADDRESS 1602 Grand Central Avenue, Vienna, WV
 SURFACE OWNER Stanley Shultz
 ADDRESS Wick, WV
 MINERAL RIGHTS OWNER John Garrison
 ADDRESS P.O. Box 344, Parkersburg, WV
 OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther
 ADDRESS General Delivery Middlebourne, WV
 PERMIT ISSUED 7-20-81
 DRILLING COMMENCED 2-8-82
 DRILLING COMPLETED 2-13-82
 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"			
9 5/8			
8 5/8	240	240	To Surface
7			
5 1/2			
4 1/2	4007	4007	To Surface
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 4007 feet
 Depth of completed well 4007 feet Rotary X / Cable Tools _____
 Water strata depth: Fresh - feet; Salt - feet
 Coal seam depths: - Is coal being mined in the area? No

OPEN FLOW DATA Dry w/gas show
 Producing formation Devonian Shale Pay zone depth 3320-3374 feet
 Gas: Initial open flow 20 Mcf/d Oil: Initial open flow - Bbl/d
 Final open flow 20 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 _____ Pay zone depth _____ feet
 Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ hours
 Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

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

Perf: ³³²⁰ 3320-3374 with 42 holes

Frac with N₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand and Shale			Surface	1658	
Big Lime			1658	1776	
Shale			1776	1797	
Big Injun			1797	1950	
Pocono Shale			1950	2310	
Berea Sandstone			2310	2314	
Shale			2314	2720	
Gordon Sandstone			2720	2744	
Devonian Shale			2744	4007	Huron @ T.D.

4007
2314

1693

(Attach separate sheets as necessary)

Oil Industries Ltd. Inc.

Well Operator

By:

Date:

[Handwritten Signature]

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

JUL 22 1981

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE July 16, 1981

Surface Owner Stanley Schultz

Company Oil Industries Ltd.

Address Wick, West Virginia 26185

Address 1602 Grand Cent. Ave., Vienna, WV

Mineral Owner John M. Garrison, et al

Farm J. D. Garrison Acres 271 23

Address P. O. Box 344, Parkersburg, WV

Location (waters) Sugar Creek

Coal Owner _____

Well No. Garrison #2 Elevation 882

Address _____

District Meade County Tyler

Coal Operator _____

Quadrangle Middlebourne

Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 3-28-82

INSPECTOR
TO BE NOTIFIED Philip L. Tracy
ADDRESS Rt. #3, Alma, WV 26320
PHONE 753-4573

[Signature]
Deputy Director - Oil & Gas Division

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 June 12, 1981 by Vessel Resources made to John M. Garrison, et al and recorded on the 16th day of June 1981, in Tyler County, Book 231 Page 102
XX 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,
(Sign Name) *[Signature]*
Well Operator
Address of Well Operator
1602 Grand Central Avenue Street
Vienna, West Virginia 26105 City or Town
West Virginia 26105 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

47-095-0928 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 17b and will carry out the specified requirements."
Signed by *[Signature]*

**THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO XX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Vessel Resources Corp. NAME C. R. Allen
 ADDRESS 1602 Grand Central Ave, Vienna ADDRESS 1602 Grand Central Avenue
 TELEPHONE 1-304-295-9000 WV TELEPHONE 1-304-295-9000 Vienna, WV
 ESTIMATED DEPTH OF COMPLETED WELL: 4000 ROTARY XX CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Devonian Shale
 TYPE OF WELL: OIL _____ GAS _____ COMB. XX STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	FEET IN WELL	CEMENT PUT UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	200	200	
7			Cemented to Surface
5 1/2			
4 1/2		T.D. Est. 4000	125 Sacks
3			Perf. Top <i>[Signature]</i>
2			Perf. Bottom <i>[Signature]</i>
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET _____ SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS _____
 IS COAL BEING MINED IN THE AREA? NO BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title



RECEIVED
DEC - 5 1985

1) Date: November 14, 1985
2) Operator's Well No. #2
3) API Well No. 47 095-0928 W Frac
State County Permit

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil XX / Gas XX /
B (If "Gas", Production XX / Underground storage _____ / Deep _____ / Shallow XX /)
- 5) LOCATION: Elevation: 892' / Watershed: Sugar Creek
District: Mende 446 / County: Tyler / Quadrangle: _____
- 6) WELL OPERATOR Energy Mgmt Serv CODE: 15815 7) DESIGNATED AGENT Randy Farke
Address P.O. Box 4429 Address 137 Willow Branch Rd
Parkburg W.Va 26104 Parkburg W.Va 26101
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Lowther 9) DRILLING CONTRACTOR: Name -NA-
Address Gen Del Address _____
Middlebourne W.Va
- 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, Gordon 2802 419
12) Estimated depth of completed well, 4000' feet
13) Approximate strata depths: Fresh, _____ feet; salt, _____ feet.
14) Approximate coal seam depths: None 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									Kinds
Fresh water									
Coal									Sizes
Intermediate	<u>8 5/8</u>		<u>23</u>	<u>X</u>			<u>240'</u>	<u>TO SURFACE</u>	<u>See</u>
Production	<u>4 1/2</u>						<u>3950</u> <u>4007</u>	<u>As Req.</u> <u>to surface</u>	Depths see
Tubing									
Lin...									Perforations
									Top Bottom

EXISTING CASING - See attached Well Record

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-095-0928-Frac W Date December 6 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 December 6, 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>SPB</u>	<u>ALB</u>	<u>MUNN</u>	<u>N/A</u>	<u>1796</u>	<u>N/A</u>	<u>MU</u>	

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

John J. Johnston by Margaret J. Fess
Director, Division of Oil and Gas

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