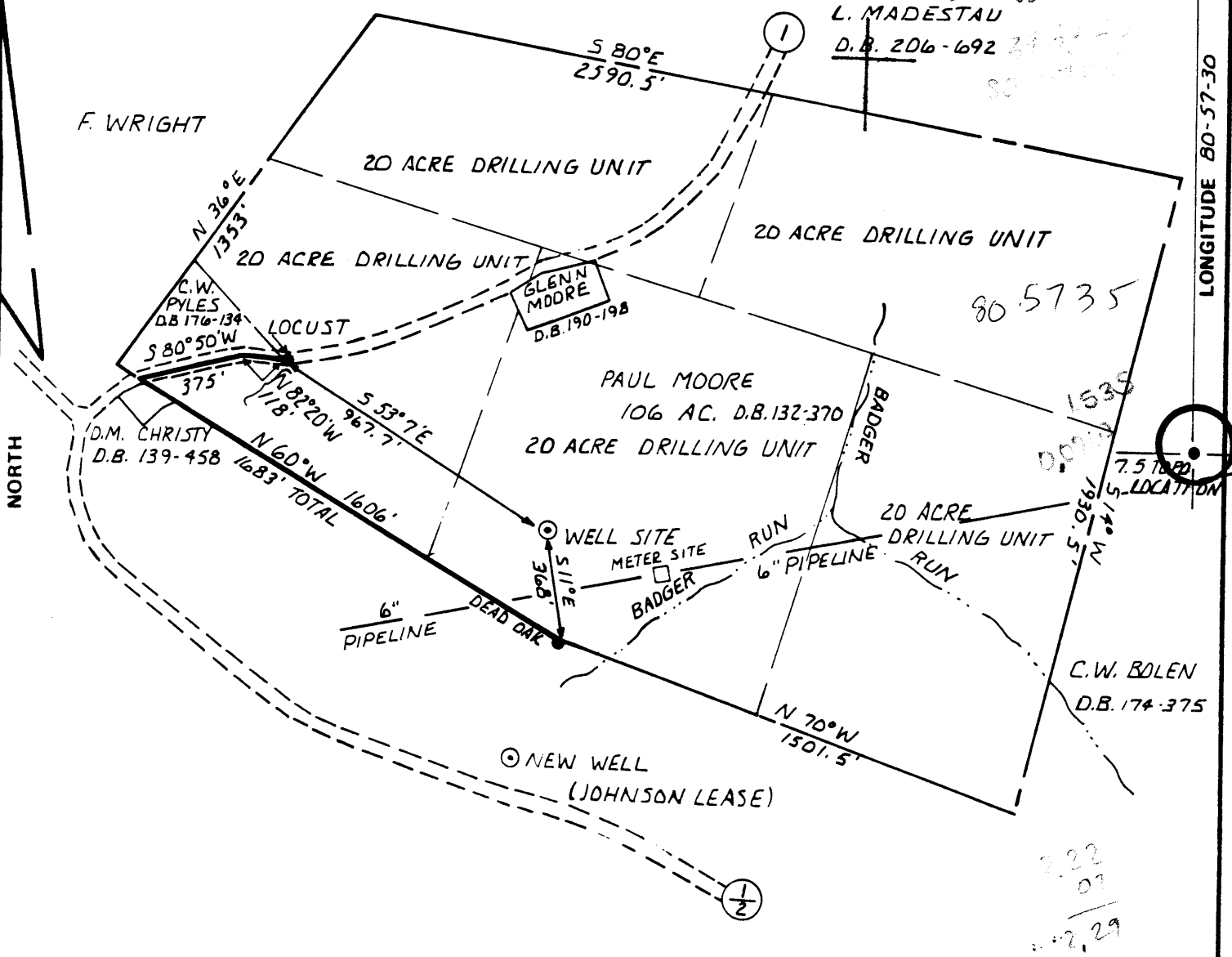


LATITUDE 39-35

W. SANDS-109 AC. LEASE

1.54 J
2.25 W
2.29 W

L. MADESTAU
D.B. 206-692



FILE NO. 81-0803-B
 DRAWING NO. 1
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:2500
 PROVEN SOURCE OF ELEVATION RD. INTERSECTION
 (1) & (2) ELEV. = 1108

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) Earl Stewart
 R.P.E. _____ L.L.S. 699

PLACE SEAL HERE

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



DATE AUGUST 19, 19 81
 OPERATOR'S WELL NO. _____
 API WELL NO. _____
47 - 095 - 0953
 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 987' WATER SHED BADGER RUN
 DISTRICT LINCOLN COUNTY TYLER
 QUADRANGLE PADEN CITY New Martinsville SW
 SURFACE OWNER PAUL MOORE ACREAGE 106
 OIL & GAS ROYALTY OWNER W. SANDS; HERRINGTON HEIRS LEASE ACREAGE 109
 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 FIFTH SAND ESTIMATED DEPTH 3,300'
 WELL OPERATOR JIM EMES PETROLEUM CO. DESIGNATED AGENT EARL STEWART
 ADDRESS 619 LACONIA BLDG. ADDRESS P.O. BOX 452
66 WHEELING, W.VA. WILLOW ET RAVENSWOOD, W.VA. 26164



RECEIVED

DEC 1 1981

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Oil and Gas Division
WELL RECORD

Quadrangle Peden City
Permit No. 47-095-0953

Rotary X Oil _____
Cable _____ Gas X
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Company Jim Emes Petroleum
Address 619 Laconia Bldg. Wheeling
Farm W. Sands/Moore Acres 106
Location (waters) Badger Run
Well No. 1 Elev. 987
District Lincoln County Tyler
The surface of tract is owned in fee by Paul Moore

Address Sisterville, WV
Mineral rights are owned by W. Sands: Hennington Heirs Address New Martinsville
Drilling Commenced 10-17-81
Drilling Completed 10-23-81
Initial open flow _____ cu. ft. _____ bbls.
Final production 421,000 cu. ft/ per day _____ bbls.
Well open 4 hrs. before test 1150 RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	266	266	85 SKS
7			
5 1/2			
4 1/2		2945	325 SKS
3			
2			
Liners Used			

Attach copy of cementing record.

Foam Frac 250 Bbl water 438.000 C.F. Nitrogen
60.000# 20/40 Sand

Coal was encountered at X Feet X Inches
Fresh water X Feet _____ Salt Water X Feet _____
Producing Sand Fifth Sand Depth 2759-2763--4 Shots
2770-2778-11 Shots

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shales & Slts.			823'	1323'		
Slts, shales, lime			1323'	1773'		
Sand & Slts.			1773'	1997'		
Squaw Sand			1997'	2005'		
Sands & Slts, Shale			2005'	2212'		
Weir Sand			2212'	2230'		
Shale			2230'	2280'		
Berea Sand			2280'	2292'		
Shale & Slts			2292'	2673'		
Gordon Sand			2673'	2646'		
Shale & Slts.			2646'	2776'		
<u>Fifth Sand</u>			2776'	2820'		
Shale			2820'	2963'		
					Total Depth	

(over)

* Indicates Electric Log tops in the remarks section.

DEC 1 6 1981

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks

Date November 25, 1981

APPROVED Jim Emes Petroleum Co. Owner

By Earl Stewart
(110)



Well No. #1
Farm W. Sands
API #47 -095 - 0953
Date 9/21/81

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil x / Gas x /

(If "Gas", Production x / Underground storage / Deep / Shallow /

LOCATION: Elevation: 987 Watershed: Badger Run
District: Lincoln County: Tyler Quadrangle: Paden City

WELL OPERATOR Jim Emes Petroleum
Address 619 Iaconia Bldg.
Wheeling, WV

DESIGNATED AGENT Earl Stewart
Address P. O. Box 452
Ravenswood, WV

OIL AND GAS ROYALTY OWNER W. Sands; Herrington Heirs
Address Box 426
New Martinsville, WV 26155
Acreage 109

COAL OPERATOR None
Address

SURFACE OWNER Paul Moore
Address Sistersville, WV
Acreage 106

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME None
Address

FIELD SALE (IF MADE) TO:
NAME
Address

NAME
Address

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Phillip Tracy
Address Rt. #3
Alma, WV 26320
Telephone 758-4573

COAL LESSEE WITH DECLARATION ON RECORD:
NAME None
Address

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SEP 29 1981
OIL AND GAS DIVISION
DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease x / other contract / dated 7/1, 1979, to the undersigned well operator from John Richmond.

(If said deed, lease, or other contract has been recorded:)

Recorded on 9/18, 1981, in the office of the Clerk of County Commission of Tyler County, West Virginia, in 221 Deed Book at page 139. A permit is requested as follows:

PROPOSED WORK: Drill x / Drill Deeper / Redrill / Fracture or stimulate / Plug off old formation / Perforate new formation / Other physical change in well (specify)

--planned as shown on the work order on the reverse side hereof.

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 receipt of this Application by the Dept. 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 lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

BLANKET DRAWN

Jim Emes Petroleum Co. Inc.
Well Operator

By: Deborah G. Emes
Its: President

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Unknown

Address _____

GEOLOGICAL TARGET FORMATION Fifth Sand

Estimated depth of completed well 3,300 feet. Rotary X / Cable tools ___ /
Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.
Approximate coal seam depths: _____
Is coal being mined in this area: Yes ___ / No X /

CASING AND TUBING PROGRAM

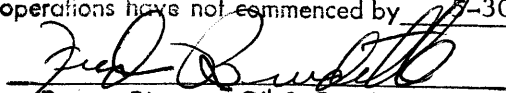
CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL- UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill- ling		
Conductor								Kinds
Fresh water	8 5/8	H 40	20	X		250	250	Top to Bottom
Coal								Sizes
Intermed.								
Production Tubing	4 1/2	K 55	10.5	X			3200	Depths set 3200
Liners								Perforations: Top Bottom

NOTE: 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.

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.

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 7-30-82.


Deputy Director - Oil & Gas Division

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:

W A I V E R

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: _____