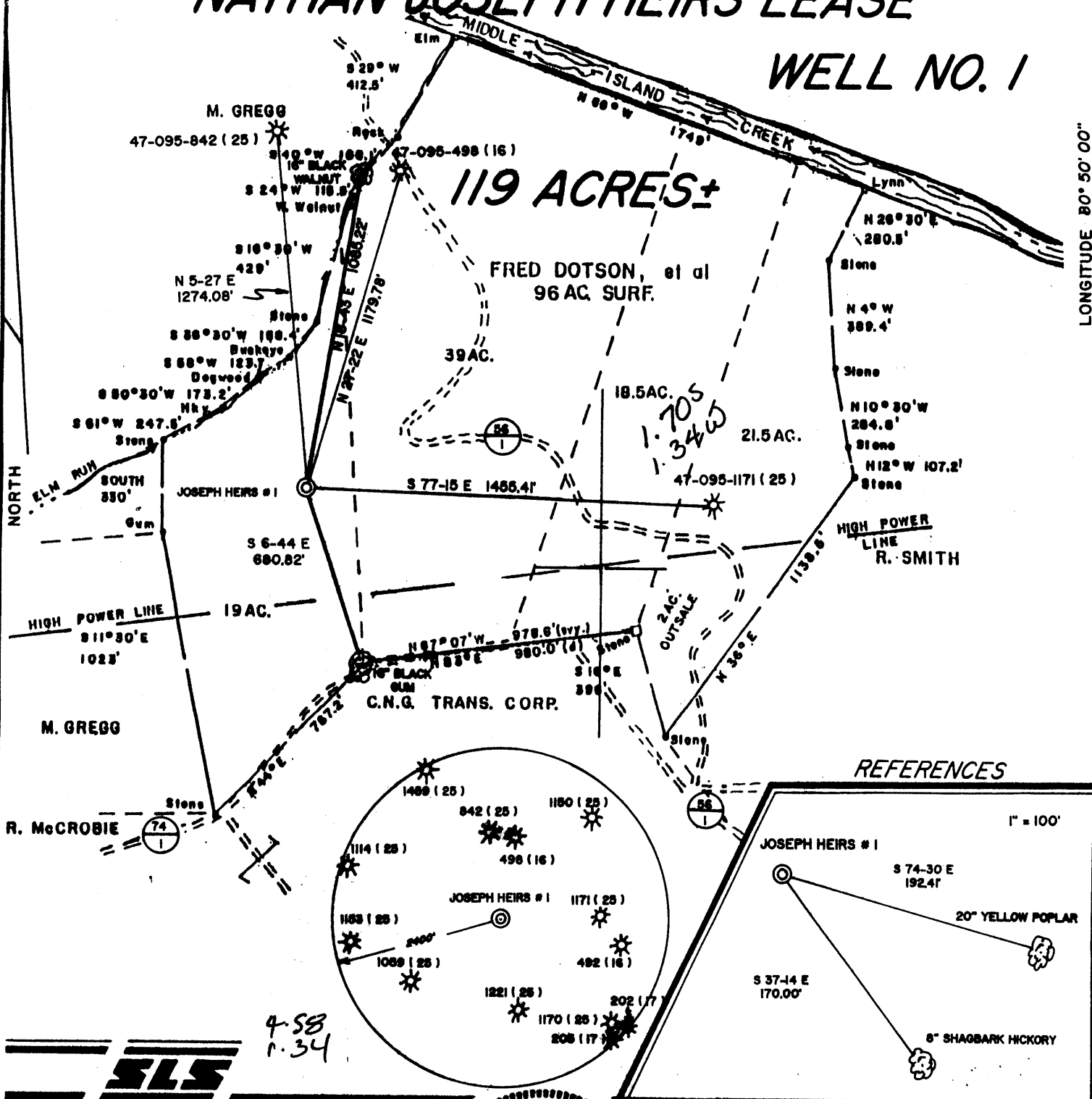


NATHAN JOSEPH HEIRS LEASE

WELL NO. 1



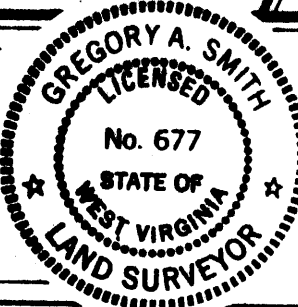
LONGITUDE 80° 50' 00"



4.58
1.34

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 ENERGY.

L.L.S. 677 Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE FEBRUARY 12, 19 93
 OPERATORS WELL NO. JOSEPH HEIRS #1
 API WELL NO. 47 - 095 - 1545
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2952 (42-30)
 PROVEN SOURCE OF ELEVATION BENCH MARK ELEVATION 737' SCALE 1" = 500'

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 957' WATERSHED ELM RUN OF MIDDLE ISLAND CREEK WU C
 DISTRICT CENTERVILLE 1 COUNTY TYLER QUADRANGLE WEST UNION 7.5' C
 SURFACE OWNER FRED DOTSON ET AL. ACREAGE 19 OF 119
 ROYALTY OWNER NATHAN JOSEPH HEIRS LEASE ACREAGE 119
 PROPOSED WORK: LEASE NO. _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER _____
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION DEVONIAN SHALE
 ESTIMATED DEPTH 5900'

WELL OPERATOR Murvin Oil Corporation DESIGNATED AGENT P. Nathan Bowles JUN 18 1993
 ADDRESS P.O. Box 297 Olney, IL. 62450 595 ADDRESS P.O. Box 1386 Charleston, WV, 25325

COUNTY NAME PERMIT

AUG 1 8 93
Permitting
Office of Oil & Gas

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: DOTSON, FRED/C. DROSS Operator Well No.: JOSEPH HEIRS #1

LOCATION: Elevation: 957.00 Quadrangle: WEST UNION

District: CENTERVILLE County: TYLER
Latitude: 8990 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 7130 Feet West of 80 Deg. 50 Min. Sec.

Company: MURVIN OIL COMPANY
1712 S. WHITTLE AVE/P.O. BX297
OLNEY, IL 62450-0297

Agent: P. NATHAN BOWLES, JR.

Inspector: MIKE UNDERWOOD
Permit Issued: 06/18/93
Well work Commenced: 07/25/93
Well work Completed: 08/12/93

Verbal Plugging _____
Permission granted on: _____
Rotary _____ Cable _____ Rig _____
Total Depth (feet) 5271'
Fresh water depths (ft) 140

Salt water depths (ft) --

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 83' - 87'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	1179	1179	383.5
4 1/2"	5206	5206	329

OPEN FLOW DATA

Producing formation Alexander/Benson Pay zone depth (ft) 5113' - 5130'
 Gas: Initial open flow show MCF/d Oil: Initial open flow -- Bbl/
 Final open flow --- MCF/d Final open flow --- Bbl/
 Time of open flow between initial and final tests --- Hour
 Static rock Pressure --- psig (surface pressure) after --- Hour

Second producing formation Bradford Pay zone depth (ft) 4397' - 4443'
 Gas: Initial open flow show MCF/d Oil: Initial open flow -- Bbl/
 Final open flow 327 MCF/d Final open flow --- Bbl/
 Time of open flow between initial and final tests 8 Hour
 Static rock Pressure 1345 psig (surface pressure) after 72 Hour

* All zones commingled.

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATE INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WEL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: MURVIN OIL COMPANY

By: Gary L. Hill Executive Vice-President
Date: August 15, 1993

Reviewed JMG
Recorded _____

93 1993

WELL LOG (CONT.)

<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>
Weir	2136	2252
Shale	2252	2326
Berea	2326	2330
Shale	2330	2754
Gordon	2754	2762
Shale	2762	3250
Balltown	3250	3298
Shale	3298	4396
Bradford	4396	4453
Shale	4453	4826
Benson	4826	4832
Shale	4832	5057
Alexander	5057	5135
Shale	5135	5271

TOTAL DEPTH: 5271'

DF. 424

DF-439

1372

RECEIVED
WV Department of Environmental Protection

JUN 02 93

FORM WW-2B

095-1545
Issued 06/18/93

Permitting
Office of Oil & Gas
STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION
Expires 06/18/95
Page 3 of 9

17372

- 1) Well Operator: Murvin Oil Company 34050 ① 670
- 2) Operator's Well Number: Joseph Hrs. #1 3) Elevation: 957
- 3) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): Riley, Benson, Alexander
- 6) Proposed Total Depth: 5250 feet
- 7) Approximate fresh water strata depths: 100'
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Drill and Complete New Well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water						S. 38CSA-11.3
Coal						38CSA-11.2.2
Intermediate	8 5/8	L.S.	24	1150	1150	CTS
Production	4 1/2	J/K	10.5	5250	5250	350
Tubing						38CSA-11.1
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

2764/10

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Smith Agent
(Type)

RECEIVED

Page 1 of 9
Form WW2-A
(09/87)

JUN 2 1993

- 1) Date: March 26, 1993
- 2) Operator's well number
Joseph Heirs #1
- 3) API Well No: 47 - 095 - 1545
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name Fred Dotson
Address R.R. #1 Box 332
Middlebourne, WV 26149
 - (b) Name Clarice D. Dross
Address c/o Fred Dotson
 - (c) Name Audria M. Dotson
Address c/o Fred Dotson
- 5) (a) Coal Operator:
 - Name N/A
Address _____
 - (b) Coal Owner(s) with Declaration
Name surface owners
Address _____
 - Name Andrew T.J. ~~Heirs~~ & Victoria Nutter
Address Box 177
Mountain, WV 26407
 - (c) Coal Lessee with Declaration
Name N/A
Address _____
- 6) Inspector Mr. Mike Underwood
Address Rt. 2 Box 135
Salem, WV 26426
Telephone (304)-782-1043

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 9 on the above named parties, by:

- _____ Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Murvin Oil Company
By: Cary Hill
Its: Executive Vice-President
Address P.O. Box 297
Olney, IL 62450
Telephone (618) 393-2124

Subscribed and sworn before me this 19th day of April, 1993

Leresa M. Perry Notary Public
My commission expires 10/28/97