

# FARR LEASE 420 ACRES ± WELL # 2 REVISED

*Amended*  
*3/21/97*

SEMAC INDUSTRIES, Inc.  
47-017-4252

W.V. PULP & PAPER # 1

D.P. II ET.AL.  
1 1/2" REBAR FOUND

3 3/4" REBAR FOUND

1 1/2" REBAR FOUND

1 1/2" REBAR FOUND

FARR # 2  
47-017-4256  
CANCELED

FARR # 1  
47-017-4255

# 2 REVISED

MITCHELL (SURFACE)

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MITCHELL (SURFACE)

MITCHELL (SURFACE)

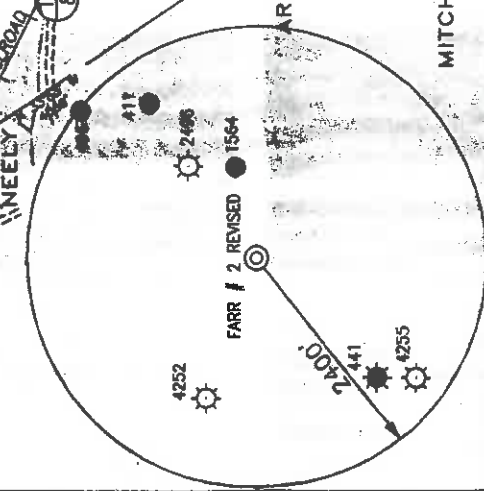
MITCHELL (SURFACE)

MITCHELL ET.AL.  
REFERENCES

MITCHELL ET.AL.

POWELL

ARNOLD



1" = 100'

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.

P.S. *Gregory A. Smith*  
677



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

DATE FEBRUARY 7, 19 97  
OPERATORS WELL NO. FARR # 2 REVISED.

API WELL NO. 47-017-04345  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200  
FILE NO. 3466P2R (60-15)  
SCALE 1" = 1000'

PROVEN SOURCE OF ELEVATION BENCH MARK ELEVATION 878'

WELL TYPE : OIL  GAS  INJECTION  WASTE DISPOSAL  "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION : ELEVATION 1122' WATERSHED MIDDLE ISLAND CREEK *New Well.*

DISTRICT WEST UNION COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5'

SURFACE OWNER DANIEL R. MITCHELL ET.AL. ACREAGE 238.44

ROYALTY OWNER FRANKLIN MAXWELL PARTNERSHIP, ET.AL. LEASE ACREAGE 420 LEASE NO. \_\_\_\_\_

PROPOSED WORK :  
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 ALEXANDER ESTIMATED DEPTH 5400'

WELL OPERATOR MURVIN & MEIER OIL Co. DESIGNATED AGENT P. NATHAN BOWLES, JR.  
ADDRESS P.O. BOX 396 OLNEY, IL 62450 ADDRESS P.O. BOX 1386 CHARLESTON, WV 25325

MAR 3 1 1997

JUL 31 1997

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

API # 47 - 17 - 04345

24-March-97

**Permitting  
Office of Oil & Gas**

**Well Operator's Report of Well Work**

Well name: MITCHELL, DANIEL R. ETAL

Operator Well No.: P. FARR #2-REV

LOCATION: Elevation: 1,122.00

Quadrangle: WEST UNION

District: WEST UNION  
Latitude: 10340 Feet South of 39 Deg. 20 Min. 0 Sec.  
Longitude: 2090 Feet West of 80 Deg. 47 Min. 30 Sec.

County: DODDRIDGE

Company: MURVIN OIL COMPANY  
130 E. MARKET, P.O. BOX 396  
OLNEY, IL 62450-0000

Agent: P. NATHAN BOWLES, JR.

Inspector: MIKE UNDERWOOD  
Permit Issued: 03/26/97  
Well Work Commenced: 07/12/97  
Well Work Completed: 07/23/97

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth ( feet ) 5580'  
Fresh water depths ( ft ) 192'  
Salt water depths ( ft ) DAMP @1375'

Is coal being mined in area ( Y / N ) ? N  
Coal Depths ( ft ) : None Reported

**OPEN FLOW DATA**

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	1,077	1077	354 Ft <sup>3</sup> To Surface
4 1/2"	5561	5561	657.9 Ft <sup>3</sup>

Producing formation Benson and Alexander Pay zone depth ( ft ) 5048' to 5409'  
Gas: Initial open flow 273 MCF / d Oil: Initial open flow - Bbl / d  
Final open flow 1,205 MCF / d Oil: Final open flow - Bbl / d  
Time of open flow between initial and final tests 4 Hours  
Static rock pressure 1150 psig ( surface pressure ) after 24 Hours

Second producing formation Warren, Speechly, Balltown, Riley Pay zone depth ( ft ) 3475' to 4673'  
Gas: Initial open flow 273 MCF / d Oil: Initial open flow - Bbl / d  
Final open flow 1,205 MCF / d Oil: Final open flow - Bbl / d  
Time of open flow between initial and final tests 4 Hours  
Static rock pressure 1150 psig ( surface pressure ) after 24 Hours

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

For: MURVIN AND MEIER OIL COMPANY

By: Cay L. Hill Vice President

Agent

Date: July 18, 1997

AUG 1 1997

7/21/97: Ran bond log and perforated Alexander formation from 5352' to 5409' (18 holes).

7/22/97: Foam fractured perfs with 380 bbls. fluid, 548 MSCF Nitrogen, 60,000 lbs 20/40, and 500 gals 15% HCL.  
Perforated Benson formation from 5048' to 5082' (10 holes).

Foam fractured perfs with 213 bbls. fluid, 346 MSCF Nitrogen, 30,000 lbs. 20/40, and 750 gals 15% HCL.

Perforated Balltown and Riley formations from 4030' to 4673' (15 holes).

Foam fractured perfs with 317 bbls. fluid, 518 MSCF Nitrogen, 10,000 lbs. 80/100, 40,000 20/4, and 750 gals. 15% HCL.

Perforated Warren and Speechly formations from 3475' to 3615' (15 holes).

Foam fractured perfs with 343 bbls. fluid, 443 MSCF Nitrogen, 10,000 lbs 80/100, 40,000 lbs. 20/40, and 750 gals. 15% HCL.

### WELL LOG

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>
B TO G.L.	0	10
LAY & R.R.	10	25
AND	25	55
HALE & R.R.	55	523
AND	523	532
ED ROCK	532	539
AND	539	550
HALE & R.R.	550	620
AND	620	640
HALE R.R.	640	709
ANDY SHALE	709	780
AND	780	795
ANDY SHALE	795	1140
R. & SHALE	1140	1198
ANDY SHALE	1198	1298
AND	1298	1400
AND & SHALE	1400	1415
AND	1415	1508
ANDY SHALE	1508	1578
AND	1578	1675
HALE	1675	1809
AND	1809	1866
HALE	1866	2019
LITTLE LIME	2019	2055
HALE	2055	2061
IG LIME	2061	2120
UN	2120	2248
HALE	2248	2370
VEIR	2370	2474
HALE	2474	2770
ORDON	2770	2835
HALE	2835	3437
WARREN	3437	3504
HALE	3504	3516

3621  
3832  
4465  
4616  
4680  
4960  
5042  
5076  
5090  
5321  
5419  
5580

3516  
3621  
3832  
4465  
4616  
4680  
4960  
5042  
5076  
5090  
5321  
5419  
5580

PEECHLY  
HALE  
ALLTOWN  
HALE  
HILEY  
HALE  
HIRD RILEY  
HALE  
HENSON  
HALE  
ALEXANDER  
HALE

TOTAL DEPTH  
5580

017-4345

AUG 1 1997



STATE OF WEST VIRGINIA 4345  
 DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 WELL WORK PERMIT APPLICATION

- 1) Well Operator: Murvin & Meier Oil Company 5868 34050 (8) 671  
 Operator's Well Number: P. Farr #2 3) Elevation: 1122  
 Well type: (a) Oil / or Gas X/ Issued 03/26/97  
 (b) If Gas: Production X/ / Undergound Storage / Expires 03/26/99  
 Deep 439 / Shallow X/  
 Proposed Target Formation(s): Warren, Speechly, Balltown, Riley, Benson, Alexander  
 Proposed Total Depth: 5530 feet  
 Approximate fresh water strata depths: 190  
 Approximate salt water depths: - Permitting  
 Approximate coal seam depths: - Office of Oil & Gas  
 Does land contain coal seams tributary to active mine? Yes / No X/  
 Proposed Well Work: Drill and Complete New Well

**CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS	FOOTAGE INTERVALS	CEMENT		
	Size	Grade	Weight per ft. drilling	Left in well	Fill-up (cu. ft.)
Conductor	-				
Fresh Water	8 5/8	L.S.	20	1070	1070 CTS
Coal					
Intermediate					
Production	4 1/2	J/K	10.5	5530	590
Tubing					
Liners					

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

For Office of Oil and Gas Use Only  
 Fee(s) paid: 10/3 (P) Well Work Permit (P) Reclamation Fund (P) WPCP  
 Plat (P) WW-9 (P) Bond (P) (P) Agent  
 (Type) \_\_\_\_\_

RECEIVED  
 WV Division of  
 Environmental Protection  
 MAR 24 1997

*29551413  
 20050811.2.2*

**RECEIVED**  
WV Division of  
Environmental Protection

1) Date: March 11, 1997  
2) Operator's well number  
P. Farr #2  
3) API Well No: 47 - 017 - 4345  
State County Permit

Permitting  
**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT**  
**DIVISION OF ENVIRONMENTAL PROTECTION**  
**OFFICE OF OIL AND GAS**

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name Daniel R. Mitchell etal  
Address 123 Harrison Avenue  
Greensburg, PA 15601
- (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
- (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:  
Name N/A  
Address \_\_\_\_\_
- (b) Coal Owner(s) with Declaration  
Name Same as Surface Owners  
Address \_\_\_\_\_
- Name \_\_\_\_\_  
Address \_\_\_\_\_
- (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
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

Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 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:

Certified Mail (Postmarked postal receipt attached)

Personal Service (Affidavit attached)

Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

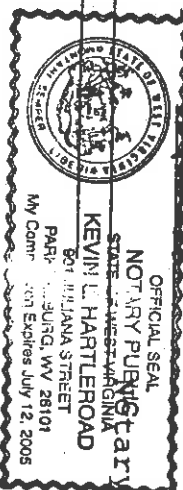
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true,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

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

By: Ray W. Old Murvin & Meier Oil Company  
Its: Vice President  
Address P.O. Box 396  
Olney, Illinois 62450

Telephone 618-395-4405  
Subscribed and sworn before me this 11th day of March, 1997

My commission expires July 12, 2005



Public