

FARR LEASE 420 ACRES WELL #1

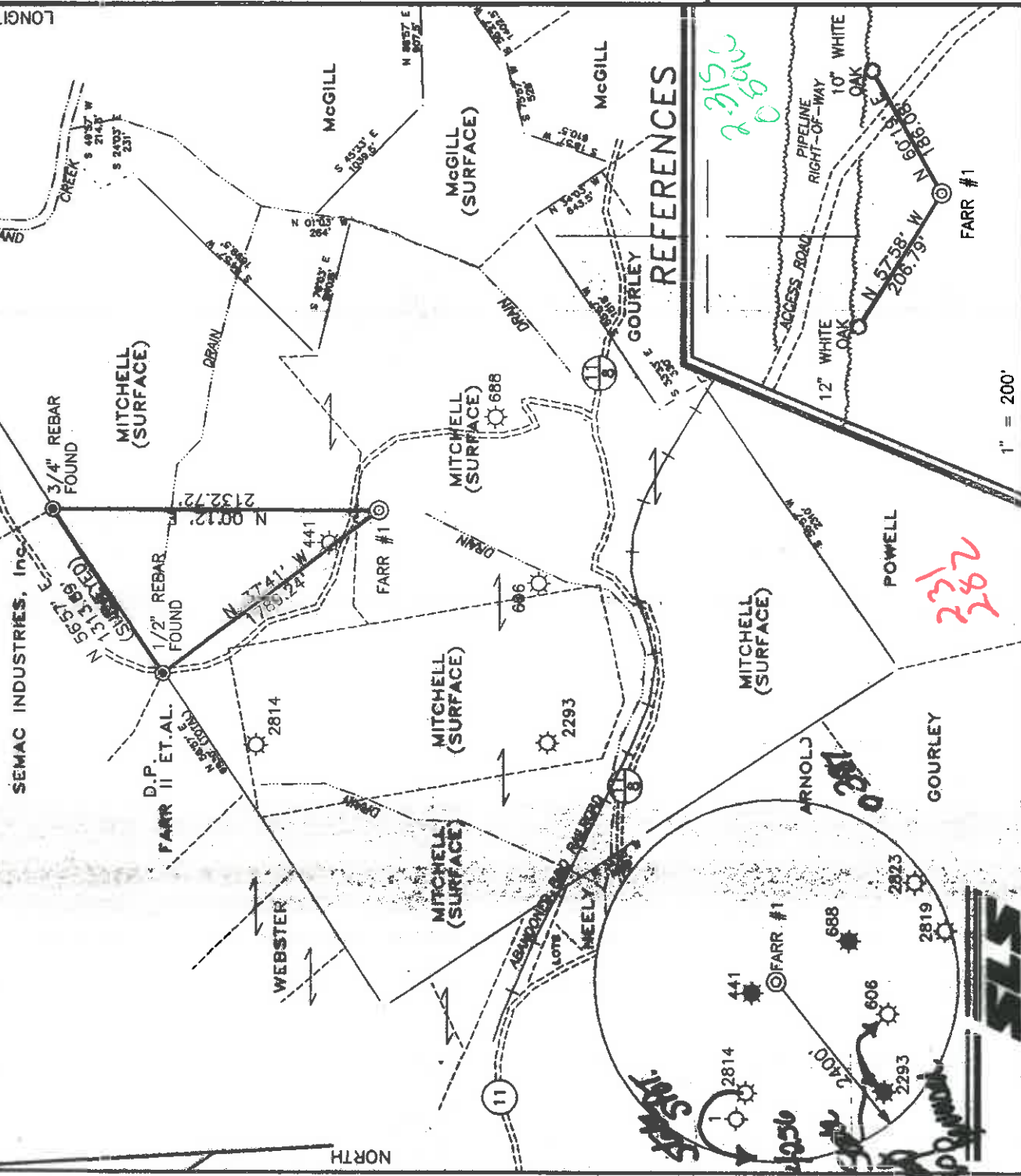
*Original
1/19/96*

3.080'

LATITUDE 39°20'00"

LONGITUDE 80°47'30"

12.110'



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 DECEMBER 11, 19 95
OPERATORS WELL NO. FARR # 1

API WELL NO. 47-017-04255
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3466P1 (56-76)
PROVEN SOURCE OF ELEVATION BENCH MARK ELEVATION 878' SCALE 1" = 1000'

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



WELL TYPE : OIL GAS INJECTION DISPOSAL WASTE IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION : ELEVATION 1121' WATERSHED ARNOLD CREEK
DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5'
SURFACE OWNER DANIEL R. MITCHELL ET.AL. ACREAGE 102
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) *Ballman, Riley, Benson &* TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5400'

WELL OPERATOR MURVIN OIL Corp. DESIGNATED AGENT P. NATHAN BOWLES, JR.
ADDRESS P.O. BOX 297 OLNEY, IL 62450 ADDRESS P.O. BOX 1386 CHARLESTON, WV 25325

6-6-91

AUG 14 1996

Permitting
 Office of Oil & Gas

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

API # 47- 17-04255

05-APR-96

Well Operator's Report of Well Work

Farm name: MITCHELL, DANIEL ETALS. Operator Well No.: P. FARR #1

LOCATION: Elevation: 1,121.00 Quadrangle: WEST UNION

District: CENTRAL County: DODDRIDGE
 Latitude: 12110 Feet South of 39 Deg. 20Min. 0 Sec.
 Longitude 3080 Feet West of 80 Deg. 47 Min. 30 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: 04/10/96
 Well work Commenced: 07/24/96
 Verbal Plugging Completed: 08/08/96
 Permission granted on: _____ Rig
 Rotary Cable _____
 Total Depth (feet) 5644
 Fresh water depths (ft) 190

Salt water depths (ft) _____

Is coal being mined in area (Y/N)? N
 Coal Depths (ft): _____

OPEN FLOW DATA

Size	Tubing	Drilling	Used in	Left	Cement
Size	Drilling	in Well	in Well	in Well	Fill Up
Size	Drilling	in Well	in Well	in Well	Cu. Ft.
11 3/4	43	43			
8 5/8	1052	1052			354
4 1/2	5573	5573			593

Producing formation Riley-Benson-Alexander Pay zone depth (ft) 4696-5421
 Gas: Initial open flow - MCF/d Oil: Initial open flow - Bbl/d
 Final open flow 1,393 MCF/d Final open flow - Bbl/d
 Time of open flow between initial and final tests 4 Hours
 Static rock Pressure 1,000 psig (surface pressure) after 24 Hours
 Second producing formation Warren-Speechley-^{Balltown} Pay zone depth (ft) 3503-4460
 Gas: Initial open flow - MCF/d Oil: Initial open flow - Bbl/d
 Final open flow 1393 MCF/d Final open flow - Bbl/d
 Time of open flow between initial and final tests 4 Hours
 Static rock Pressure 1,000 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 OIL COMPANY

By: Gay L. Hill

Date: August 12, 1996

AUG 16 1996

08/06/96: Perforated Alexander formation 5388' to 5421' with 14 holes

08/07/96: Foam fractured Alexander Perfs with 500 gals 15% FE acid, 415 bbls. fluid, 60,000 lbs 20/40, and 522 mscf nitrogen.

Perforated Benson formation 5106' to 5108' with 9 holes and Third Riley formation 5037' to 5038' with 3 holes. Foam fractured both sets of perforations with 155 bbls. fluid, 40,000 lbs 20/40, 583 mscf nitrogen, and 500 gals. 15% HCL acid.

Perforated Riley formations 4667' to 4696' with 8 holes and Balltown formation 3962' to 4460' with 12 holes. Foam fractured both sets perfs with 286 bbls. fluid, 10,000 lbs. 80/100, 33,700 lbs. 20/40, 421 mscf nitrogen, and 1000 gals. 15% HCL acid.

Perforated Speechly formation 3592' to 3641' with 6 holes and Warren formation 3503' to 3524' with 9 holes. Foam fractured both sets perfs with 331 bbls. fluid, 10,000 lbs. 80/100, 46,900 lbs. 20/40, 450 mscf nitrogen, and 750 gals. 15% HCL acid.

WELL LOG

FORMATION	TOP	BOTTOM
Sand Shale	0	45
Shaly Sand	45	189
Sand	189	199
Shale	199	220
Red Rock	220	239
Sandy Shale	239	543
Shale	543	600
Sand/Shale	600	805
Sand	805	919
Red Rock	919	1035
Sandy Shale	1035	1305
Shale	1305	1360
Sandy shale	1360	1860
Sand	1860	1880
Sandy Shale	1880	2058
Big Lime	2058	2208
Injun	2208	2267
Shale	2267	2399
Weir	2399	2508
Shale	2508	2598
Berea	2598	2610
Shale	2610	2810
Gordon	2810	2852
Shale	2852	3489
Warren	3489	3534
Shale	3534	3544
Speechly	3544	3652
Shale	3652	3850
Balltown	3850	4496
Shale	4496	4638
Riley	4638	4707
Shale	4707	4970
Third Riley	4970	5055
Shale	5055	5104
Benson	5104	5114
Shale	5114	5350
Alexander	5350	5438
Shale	5438	5644
Total Depth	5644	

017-4255

RECEIVED
WV Division of
Environmental Protection

MAR 25 1996 STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
Permitting
WELL WORK PERMIT APPLICATION

Office of Oil & Gas ^{S&S} Murvin Oil Company 34050 ① 671

2) Operator's Well Number: P. Farr #1 3) Elevation: 1121

4) Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production X / Underground Storage ___ /
Deep ___ / Shallow X /
*Issued 04/10/96
Expires 04/10/98*

21769

Proposed Target Formation(s): ⁴³⁰ Balltown, Riley, Benson, Alexander

Proposed Total Depth: 5585 feet

Approximate fresh water strata depths: 87', 100'

Approximate salt water depths: -

9) Approximate coal seam depths: -

10) Does land contain coal seams tributary to active mine? Yes ___ / No X /

11) Proposed Well Work: Drill and Complete New Well

12)

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT per ft.	FOR DRILLING	LEFT IN WELL	FILL-UP (cu. ft.)	CEMENT
Conductor							
Fresh Water	8 5/8	L.S.	20	1025	1025	OK MUD CTS	
Coal						385918/13	
Intermediate						385918 11.22	
Production	4 1/2	J/K	10.5	5585	5585	400	
Tubing						385918/11	
Liners							

PACKERS : Kind _____
Sizes _____
Depths set _____

For Office of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP

Plat | WW-9 | WW-2B | Bond | Agent

(Type) _____

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RECEIVED
WV Division of
Environmental Protection
MAR 25 1996

1) Date: March 15, 1996
2) Operator's well number
3) P. Farr #1
API Well No: 47 - 017 - 4255
State County Permit

Permitting
Office of Oil & Gas
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, David R. Mitchell etals
Address/23103 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 N/A
Address

Name
Address

6) Inspector Mr. Mike Underwood
Address Route 2, Box 135
Salem, WV 26426
Telephone (304) -

(c) Coal Lessee with Declaration
Name N/A
Address

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 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 8 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 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.

Well Operator Murvin Oil Company
By: David A. Hill
Its: Executive Vice President
Address P.O. Box 297
Oney, Illinois 62450

Telephone 618-393-2124
Subscribed and sworn before me this 15th day of March, 1996

Barbara A. Rice Notary Public
November 9, 1996

My commission expires