

LATITUDE 39°17'30"

LONGITUDE 80°50'00"

DEMASTUS

April 10/2/97
GARNER
ET.AL.

65S
77W

VALLIE R. TOWNER
(LIFE ESTATE)
68.23 AC.±
(SURFACE)

30' BLACK OAK

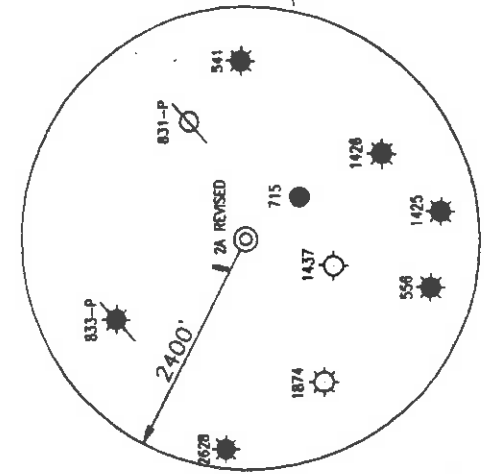
CURRENCE

TOWNER LEASE
68.23 ACRES±
WELL # 2A REVISED

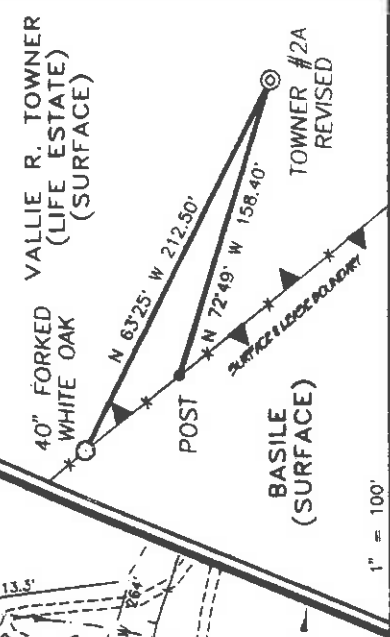
CURRENCE

RECEIVED
SEP 23 1997
Permitting
Office of Oil & Gas
BINEGER

BASILE



REFERENCES



1" = 100'



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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 AUGUST 13, 19 97
OPERATORS WELL NO. TOWNER # 2A REVISED

API WELL NO. 47-017-4402
STATE COUNTY PERMIT

WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
#10 McJUNKIN ROAD
NITRO, WEST VIRGINIA 25143-2506

MINIMUM DEGREE OF ACCURACY 1 / 200
FILE NO. 3630P2AR (65--67)
SCALE 1" = 500'
PROVEN SOURCE OF ELEVATION BENCH MARK ELEVATION 904'

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

LOCATION : ELEVATION 1077' WATERSHED WILHELM RUN
DISTRICT CENTRAL COUNTY DODDRIDGE WEST UNION 7.5'

SURFACE OWNER VALLIE R. TOWNER, LIFE ESTATE - (JOSEPH TOWNER) ACREAGE 68.23
ROYALTY OWNER GLENN TOWNER ET.AL. LEASE ACREAGE 68.23
LEASE NO. _____

PROPOSED WORK :
DRILL ___ X ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ X ___ 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 5750'

WELL OPERATOR PETROLEUM RESOURCES, INC. DESIGNATED AGENT STAN MASONER
ADDRESS P.O. BOX 1066 WESTON, WV 26452

6-6-89

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

Well Operator's Report of Well Work

Farm name: TOWNER, VALLIE Operator Well No.: TOWNER 2-A

LOCATION: Elevation: 1,077.00 Quadrangle: WEST UNION

District: CENTRAL County: DODDRIDGE
Latitude: 3430 Feet South of 39 Deg. 17Min. 30 Sec.
Longitude 4020 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: PETROLEUM RESOURCES, INC.
P. O. BOX 1066
WESTON, WV 26452-1066

Agent: STANLEY N. MASONER

Inspector: MIKE UNDERWOOD
Permit Issued: 09/29/97
Well work Commenced: 09/30/97
Well work Completed: 10/15/97
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) _____ 5497'
Fresh water depths (ft) _____ 70'

Salt water depths (ft) _____ N/A

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Uf Cu. Ft.
11 3/4"	30'	30'	
8 5/8"	1117'	1117'	CTS 290 sks
7"	1139'	1139'	100 sks
4 1/2"	5370'	5370'	600 sks

OPEN FLOW DATA

Producing formation Alexander/Benson Pay zone depth (ft) 5308'-4921'
Gas: Initial open flow No Show MCF/d Oil: Initial open flow No Show Bbl/
Final open flow 1,150 MCF/d Final open flow Trace Bbl/
Time of open flow between initial and final tests _____ Hour
Static rock Pressure 1600 psig (surface pressure) after 24 Hour

Second producing formation Riley/Balltown Pay zone depth (ft) 4594'-3448'
Gas: Initial open flow No Show MCF/d Oil: Initial open flow No Show Bbl/
Final open flow 1,150 MCF/d Final open flow Trace Bbl/
Time of open flow between initial and final tests _____ Hour
Static rock Pressure 1600 psig (surface pressure) after 24 Hour

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATE 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: PETROLEUM RESOURCES, INC.

By: Stanley N. Masoner
Date: 11/18/97

NOV 21 1997

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

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Alexander - 12 Holes - 5286'-5308'					
			Frac - 500 gals. Hcl Acid		
			711 bbls. Treated Water		
			Sand - 60,000 lbs.		
			N2 - 550,000 SCF		
Benson - 12 Holes - 4921'-5002'					
			Frac - 750 gals. Hcl Acid		
			521 bbls. Treated Water		
			Sand - 26,000 lbs.		
			N2 - 336,000 SCF		
Daley - 10 Holes - 4593'-4370'					
			Frac - 1,000 gals. Hcl Acid		
			558 bbls. Treated Water		
			Sand - 40,000 lbs.		
			N2 - 438,000 SCF		
3rdtown - 14 Holes - 4006'-3448'					
			Frac - 1,000 gals. Hcl Acid		
			552 bbls. Treated Water		
			Sand - 40,000 lbs.		
			N2 - 358,000 SCF		

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Kelly Bar/Ground Level Soil	Tan	Soft	0	10	
Sand & Shale	Gray	Med.	10	15	
Red Rock & Shale	Red/Gray	Med.	15	40	
Sand & Shale	Gray	Med.	40	70	Damp @ 70'
Red Rock & Shale	Red/Gray	Med.	70	80	
Sand & Shale	Gray	Med.	80	97	
Red Rock & Shale	Red/Gray	Med.	97	128	
Sand & Shale	Gray	Med.	128	174	
Red Rock & Shale	Red/Gray	Med.	174	347	
Sand & Shale	Gray	Med.	347	507	
Red Rock & Shale	Red/Gray	Med.	507	509	
Coal	Black	Soft	507	509	
Sand, Shale & Red Rock	Red/Gray	Med.	509	580	
Sand & Shale	Gray	Med.	580	595	
Sand, Shale & Red Rock	Red/Gray	Soft	595	620	
Sand & Shale	Gray	Med.	620	780	
Sand	Gray	Hard	780	805	
Sand, Shale & Red Rock	Red/Gray	Med.	805	978	
Sand & Shale	Gray	Med.	978	1027	
Sand	Gray	Hard	1027	1085	
Sand, Shale & Red Rock	Red/Gray	Med.	1085	1568	
Shale & Sand	Gray	Hard	1568	2004	1642' little returns - S.P. on hole 1704'
Little Lime	Gray	Hard	2004	2025	
Sand & Shale	Gray	Med.	2025	2031	
Big Lime	Gray	Hard	2031	2104	
Lime & Sand	White/Gray	Hard	2104	2169	Gas check @ 2112' - no show
Sand & Shale	Gray	Med.	2169	3415	Gas check @ 2322' - no show - dust hole
Sand	Gray	Hard	3415	3455	Gas check @ 2997' - no show
Sand & Shale	Gray	Med.	3455	4987	Gas check @ 4261' - no show (odor)
Benson	Brown	Hard	4987	4994	Gas check @ 4754' - no show
Sand & Shale	Gray	Med.	4994	5497	Gas check @ 5217' - no show
					T.D. @ 5497'

GA Well No. 47-017-04402

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

Issued 09/29/97
Expires 09/29/99

24356

Well Operator: Petroleum Resources, Inc. 38300 (SE) 671
Operator's Well Number: Towner 2-A 3) Elevation: 1077
Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production X / Underground Storage ___ /
Deep ___ / Shallow X /

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5) Proposed Target Formation(s): Alexander 439
6) Proposed Total Depth: 5750 feet
7) Approximate fresh water strata depths: 750'
8) Approximate salt water depths: None
9) Approximate coal seam depths: None
10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
11) Proposed Well Work: New Well Drill and Stimulate
12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 3/4"			20'		Fill-up (cu. ft.) <u>0.4 Mlbs</u>
Fresh Water	8 5/8"	H-40	20#	1077	1077	CTS
Coal					38 cstr 18-11.2	38 cstr 18-11.3
Intermediate						
Production	4 1/2"	J-55	10.5#	5750'	5750'	700 sks
Tubing						38 cstr 18-11.1
Liners						

PACKERS: Kind _____

Sizes _____

Depths set _____

For Division of Oil and Gas Use Only

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

WV 09/29/97

1) Date: 8/22/97
2) Operator's well number Towner 2-A

3) API Well No: 47-017 - 4402
State _____ County _____ Permit _____

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

RECEIVED
WV Division of
Environmental Protection
SEP 23 1997
Permitting
Office of Oil & Gas

- 4) Surface Owner(s) to be served: 5) (a) Coal Operator:
- (a) Name Valley R. Towner Name _____
Address RR. 1 Box 285 Address _____
West Union WV 26456
- (b) Name Joseph L. Towner (b) Coal Owner(s) with Declaration Office of Oil & Gas
Address P.O. Box 21 Name _____
Smithburg WV 26436 Address _____
- (c) Name _____ Name _____
Address _____ Address _____
- 6) Inspector Mike Underwood (c) Coal Lessee with Declaration
Address Rt. 2 Box 21 Name _____
Salem WV 26426 Address _____
Telephone (304)-420-4550

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 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties, by:

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

INSTRUCTIONS TO SURFACE OWNERS NAMED ABOVE

(Continued on Reverse)

The well operator named below is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months.

Well Operator Petroleum Resources, Inc.
 By: Seyma Starkley N. Masoner
 Its: Vice President
 Address Po Box 1066
Weston WV 26452
 Telephone (304) 265-4218

Subscribed and sworn before me this 22nd day of August, 1997
Shirlea Neil Mitchell Notary Public
 My commission expires Jan. 26, 2007