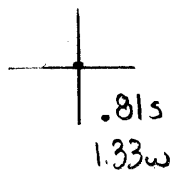


40°37'30"

Latitude

80°32'30"



Longitude

Topo Location

7.5' Loc. _____ 15' Loc. _____
 _____ (calc.) _____

Company G.O.W. Resources

Farm Chester Volunteer Fire Dept #7

15' Quad _____
(sec.)

7.5' Quad East Liverpool South

District Grant

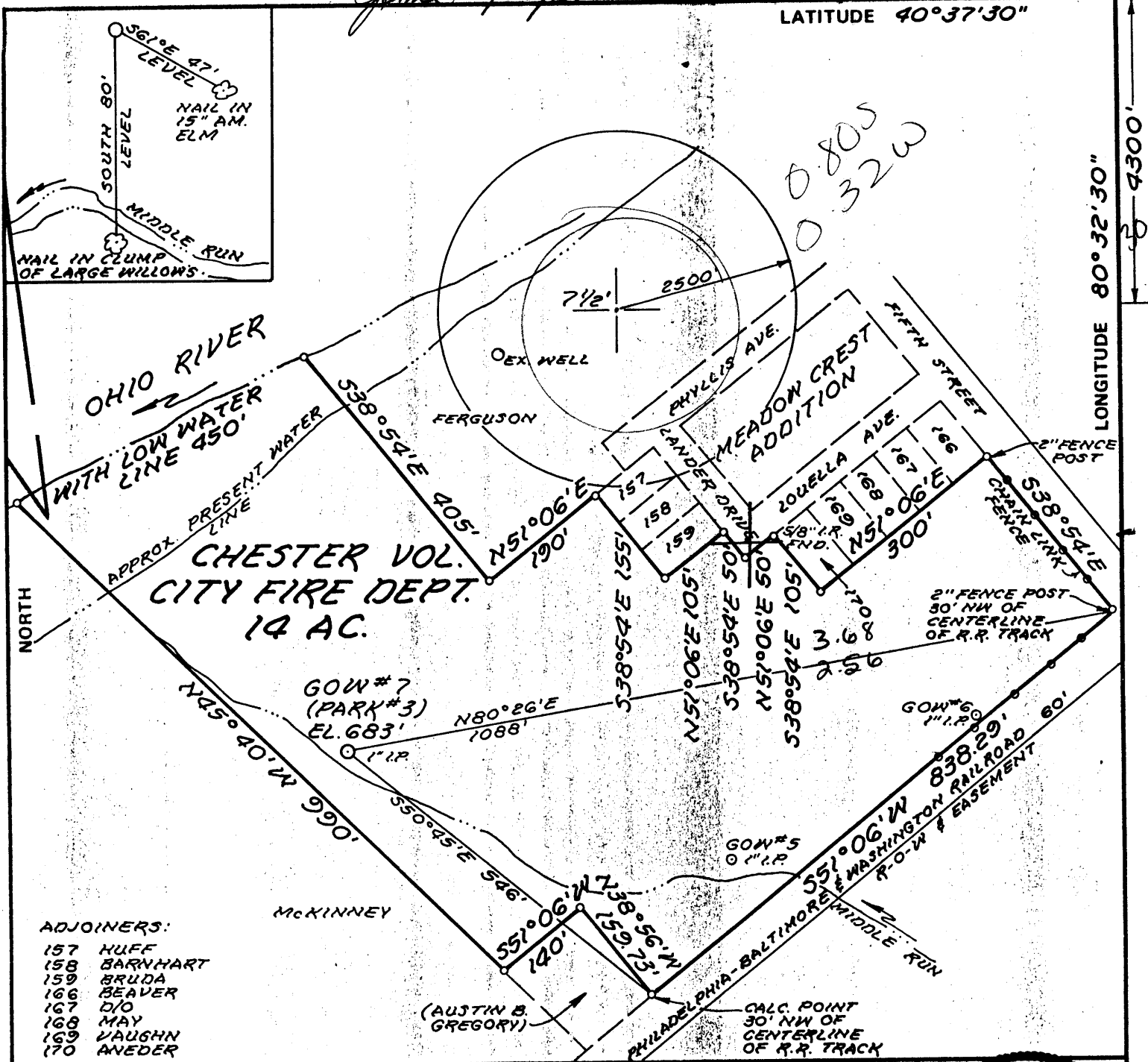
WELL LOCATION PLAT

County 029 **Permit** 129

Jan 5/23/88

7010' 40
LATITUDE 40°37'30"

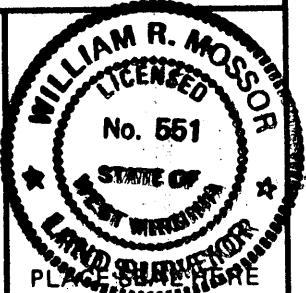
LONGITUDE 80°32'30"



- ADJOINERS:
- 157 HUFF
 - 158 BARNHART
 - 159 BRUDA
 - 166 BEAVER
 - 167 D/O
 - 168 MAY
 - 169 VAUGHN
 - 170 ANEDER

FILE NO. MB 3-8.9
 DRAWING NO. _____
 SCALE 1" = 200'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION STREET INT. 702' 1250' SE OF LOC.

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) William R. Mossor
 R.P.E. _____ L.I.S. 551



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



DATE 10 DECEMBER 19 85
 OPERATOR'S WELL NO. GOW #7
 API WELL NO. (PARK #3)
47 - 029 - 0129
 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 673' WATER SHED MIDDLE RUN
 DISTRICT CHESTER CORR. GRANT COUNTY HANCOCK
 QUADRANGLE EAST LIVERPOOL SOUTH 7 1/2' 330 131 E.C. Wellsville
 SURFACE OWNER CHESTER VOL. CITY FIRE DEPT. ACREAGE 14
 OIL & GAS ROYALTY OWNER BOARD OF PARK COMM.-CITY LEASE ACREAGE 14
 LEASE NO. _____ OF CHESTER
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

MAY 27 1988

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION LOWER DEVONIAN ESTIMATED DEPTH 4000'
 WELL OPERATOR G.O.W. RESOURCES DESIGNATED AGENT RUSSELL G. SMITH
 ADDRESS P.O. BOX 191 423 ADDRESS ROUTE 1, BOX 66
CHESTER, WV 26034 CHESTER, WV 26034

WR-35

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JAN 11 1990



DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date 12/20/89
Operator's
Well No. G.O.W. #7 Park #3
Farm Chester City Park
API No. 47 - 029 - 0129

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production X / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 673 Watershed Middle Run
District: Chester Cor County Hancock Quadrangle East Liverpool
South 7 1/2

COMPANY G.O.W. Resources
ADDRESS P.O. Box 191 Chester, W.Va.
DESIGNATED AGENT Russell G. Smith
ADDRESS Stevenson Ave. Chester, WVa 26034
SURFACE OWNER Chester Vol. Fire Dept.
ADDRESS Chester, W.Va. 26034
MINERAL RIGHTS OWNER Board of Park Comm.
ADDRESS City of Chester
OIL AND GAS INSPECTOR FOR THIS WORK Mike
Underwood ADDRESS Route 2 Box 135 Salem
PERMIT ISSUED 4/25/88 WVa 26426
DRILLING COMMENCED June 2, 1988
DRILLING COMPLETED November 15, 1989

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8	10'	10'	
8 5/8			
7	62'	62'	
5 1/2	443'	443'	To Top
4 1/2			
3			
2			
Liners used	None		

GEOLOGICAL TARGET FORMATION Berea Depth 503'-547' feet
Depth of completed well 555 feet Rotary ___ / Cable Tools X
Water strata depth: Fresh 80-120 feet; Salt ___ feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Berea Pay zone depth 506'-531' feet
Gas: Initial open flow 10 Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow 10 Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 95 psig (surface measurement) after 12 hours shut in
(If applicable due to multiple completion--)
Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

JAN 19 1990
(Continue on reverse side)

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

Didn't fracture or shoot well.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Top soil		soft	0	2	
Sand and Gravel		soft	2	62	Fresh water
Gray Shale		md. hard	62	65	
Brown sand		hard	65	85	
Gray shale		md. hard	85	95	
Gray sand		md. hard	95	105	Fresh water
Gray shale		md. hard	105	140	
Gray sand		hard	140	148	
Gray sandy shale		md. hard	148	175	
Gray sand		lite hard	175	240	
Gray sand		dark hard	240	280	
Gray sand Gray shale mixed		md. hard	280	340	
Sandy lime shells Gray shale		md. hard	340	458	
Black shale		md. hard	458	487	
Brown Lime		very hard	487	495	
white sand		Hard	495	503	
white sand		Hard and md. hard	503	514	show gas 506'
shale	dark	soft	514	517	
white sand		md. hard	517	532	show gas 527 and 531'
shale	dark gray		532	534	
white sand		hard	534	547	show of oil
lite shale			547	555	

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

G.O.W. Resources

Well Operator

By: Russell H. Smith

Date: December 21, 1989

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

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

- 1) Well Operator: G.O.W. Resources 18575, 3, 330
- 2) Operator's Well Number: G.O.W. #7 Park #3 3) Elevation: 673
- 4) Well type: (a) Oil or Gas
(b) If Gas: Production Underground Storage
Deep Shallow 441
- 5) Proposed Target Formation(s): Lower Devonian
- 6) Proposed Total Depth: 4000 feet
- 7) Approximate fresh water strata depths: 60' - 120', 358', 205'
- 8) From New Coker 114, 115, 117, 121, 124 Approximate salt water depths: 250'
- 9) Approximate coal seam depths: NONE
- 10) Does land contain coal seams tributary to active mine? Yes No
- 11) Proposed Well Work:
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	10"	A	40 #	25' <u>OK</u>	<u>CS</u> 25'	Cement
Fresh Water	8"	A	28 #	140' <u>OK</u>	<u>CS</u> 140'	To surface
Coal	7"	A	20 #	470' <u>OK</u>	<u>CS</u> 470'	To surface
Intermediate						38CSR18-14 3
Production	4 1/2"	A	10 1/2 #	3,500	3,500	38CSR18-11. 1 210 SACKS
Tubing						
Liners						

o.k. u
g/u

PACKERS : Kind _____
Sizes _____
Depths set _____

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For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Fee(s) paid: Plat WV-9 WV-2B Bond single well \$10,000 Agent
Well Work Permit Plat Reclamation Fund Plat WPCP Plat

1807
2403
15

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MAY 23 1988

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

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: 4-25-88
2) Operator's well number
G.O.W. #7 - PARK #3
3) API Well No: 47 - 029 - 0129
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 CHESTER VOL. FIRE. DEP.
 Address CHESTER, WV
26034
 (b) Name CHESTER CITY PARK, GOVERNMENT
 Address CHESTER, WV
26034
 (c) Name _____
 Address _____
- 5) (a) Coal Operator:
 Name NONE
 Address _____
 (b) Coal Owner(s) with Declaration
 Name _____
 Address NONE
 Name _____
 Address _____
 (c) Coal Lessee with Declaration
 Name NONE
 Address _____
- 6) Inspector MIKE UNDERWOOD
 Address ROUTE #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 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 _____ on the above named parties, by:

- Personal Service (Affidavit attached)
 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 G.O.W. RESOURCES
By: Russell H. Smith
Its: Designated Agent
Address Box 64 Steubenville Chester WV
26024
Telephone 304-387-4090

Subscribed and sworn before me this 25 day of APRIL, 1988

[Signature]
Notary Public
My Commission expires November 8, 1992

