

TOTAL SURF 4100' LONGITUDE 80°40'00" LATITUDE 39°20'00"

GLENVILLE STATE COLLEGE ALUMNI FOUNDATION LEASE

61.4 ACRES TOTAL WELL NO. 1

Office

JIM C. HAMER CO.

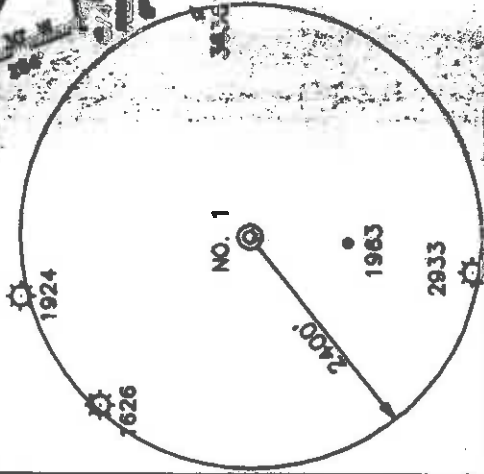
DORIS L. & WARREN FLUHARTY
61.4 OF 150.55 ACRES
(SURFACE)

DORIS L. & WARREN FLUHARTY
150.55 ACRES
(TOTAL SURFACE)

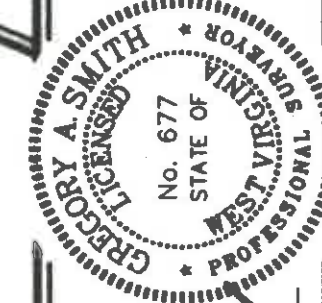
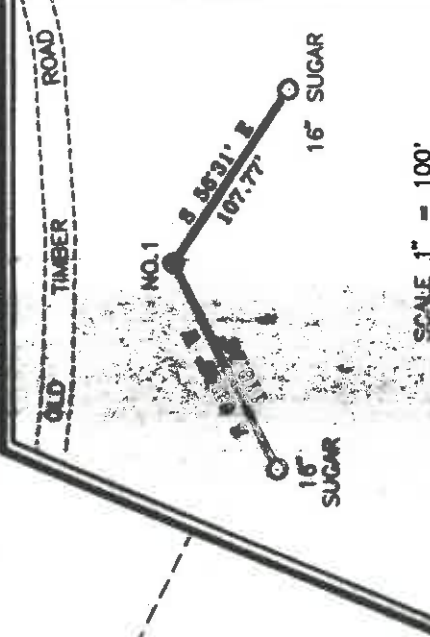
DENNIS S. & KAY L. POWELL

JERALDINE POWELL(LIFE)

JIM C. HAMER CO.



REFERENCES

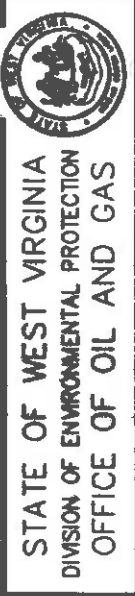


I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.

P.S. 677 *Gregory A. Smith*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE DECEMBER 30, 19 97
OPERATORS WELL NO. GSC ALUMNI FOUNDATION #1
API WELL NO. 47-017 04425 STATE VA COUNTY SMITHBURG PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3857P1 (64-58)
PROVEN SOURCE OF ELEVATION SCALE 1" = 400'
TOP OF KNOB ELEVATION 1408'



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

LOCATION : ELEVATION 1250' WATERSHED TRIBUTARY OF FLINT RUN
DISTRICT GRANT COUNTY DODDRIDGE QUADRANGLE SMITHBURG 7.5'
SURFACE OWNER DORIS L. AND WARREN FLUHARTY ACREAGE 61.4 OF 150.55
ROYALTY OWNER GLENVILLE STATE COLLEGE ALUMNI FOUNDATION, INC. LEASE ACREAGE 61.4
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 ALEXANDER
ESTIMATED DEPTH 5600'

WELL OPERATOR JACK PRODUCTION, INC. DESIGNATED AGENT RICHARD REDDECLIFF JAN 2 1998
ADDRESS P.O. BOX 697 INDIANA, PA 15701 ADDRESS 85 WEST MAIN BUCKHANNON, WV 26201

6-6 99

FROM : NECI

PHONE NO. : 4124440895

Jul. 07 1999 03:08PM P2

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DATE: 11/28 P 2-Jan-98
API # 47-17-04425

Reviewed RS

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

Well Operator's Report of Well Work

Farm Name: FLUHARTY, DORIS L. Operator Well No.: CSC ALUMNI #1

LOCATION: Elevation: 1,230.00 Quadrangle: SMITHBURG

District: GRANT County: DODDRIDGE
Latitude: 1260 Feet South of 39 Deg. 20Min. 0 Sec.
Longitude 4100 Feet West of 80 Deg. 40 Min. 0 Sec.

Company: JACK PRODUCTION, INC.
P. O. BOX 697
INDIANA, PA 15701-0697

Agent: RICHARD REDDECLIFF

Inspector: MIKE UNDERWOOD
Permit Issued: 01/22/98
Well work Commenced: 3/23/98
Well work Completed: 4/15/98
Verbal Plugging
Permission granted on: _____ RIG
Rotary Cable _____
Total depth (feet) _____ 5718
Fresh water depths (ft) _____

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

OPEN FLOW DATA

Producing formation Alexander / ELK Pay zone depth (ft) 5338 - 5558
Gas: Initial open flow N/A MCF/D Oil: Initial open flow 8bl/d
Final open flow N/A MCF/D Final open flow 8bl/d
Time of open flow between initial and final tests _____ Hours
Static rock pressure psig (surface pressure) after _____ Hours

Second producing formation Benson Pay zone depth (ft) 5204 - 5108
Gas: Initial open flow N/A MCF/D Oil: Initial open flow 8bl/d
Final open flow N/A MCF/D Final open flow 8bl/d
Time of open flow between initial and final tests _____ Hours
Static rock pressure psig (surface pressure) after _____ Hours

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

FOR: Jack Production, Inc. Secretary
DATE: 7-9-99

Casing & Tubing Size	Used In Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8		1283'	389
4-1/2		5610'	998
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0000 4425

AUG 09 1999

FROM : NECI

PHONE NO. : 4124440895

JUL 07 1999 03:11PM P2

5SC #1 (cont)

3- BAARDOND / RILEY 4720 - 4974
4- BAYAND 3162 - 3166
5- BIB INJUN 244 - 2208

<u>STIMULATION</u>	<u>SAND</u>	<u>WATER</u>	<u>N₂</u>
ALEXANDER / ELIC	200 SX	143 BBL	272 MCF N ₂
BENSON	306 SX	180 BBL	343 MCF
BAARDOND / RILEY	200 SX	142 BBL	243 MCF
BAAYAND	250 SX	146 BBL	235 MCF
BIB INJUN	353 SX	279 BBL	49 MCF

COMMUNILED ADF - 531 MCFPD
STWP - 560 PSIB

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UIC Section
JUL 26 1999
WV Division of
Environmental Protection

~~A. A. NOT HAVE FILTERS LOG SIZE SAND STACK~~
Pressure Log
Water
0-50 112' - Dena
50-100
100-170
170-210
210-550
550-640
640-810
810-860
860-1430
1430-1920
1920-2180
2180-2300
2300-5718
1515' - Dena

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
SECTION OF OIL AND GAS

WELL WORK PERMIT

This permit, issued to JACK PRODUCTION, INC. is evidence of permission granted to perform the specified well work at the location described on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given to the Oil and Gas Inspector MIKE UNDERWOOD at 304-288-4604 prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be reported to 1-800-654-3312.

Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and in addition may result in civil and/or criminal penalties.

Well work to be conducted under this permit shall be commenced within two (2) years from date of issue.

Theodore M. Streit
Chief

By: _____



Title: _____



Operator's Well No: GSC ALUMNI #1

Farm Name: FLUHARTY, DORIS L.

API Well Number : 47- 17-04425

Date Issued : 01/22/98

Expires two (2) years from issue date.

017-4428

24766

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

Well Operator: Jack Production, Inc. 2422 (3) 611

Operator's Well Number: GSC Alumni Foundation #1 3) Elevation: 1250'

Well Type: (a) Oil / or Gas X /

(b) If Gas: Production X / Undergound Storage /
Deep / Shallow X /

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5) Proposed Target Formation(s): Alexander

6) Proposed Total Depth: 5600 feet

7) Approximate fresh water strata depths: 130'

8) Approximate salt water depths: N/A

9) Approximate coal seam depths: N/A

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

11) Proposed Well Work: To Drill & Stimulate

12) CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTING INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in Well	
Conductor	11 3/4"			30'	0'	0 Sacks
Fresh Water	8 5/8"			1350'	1250'	CTS or 38 CSR 18-11.3
Coal						38588/11.22
Intermediate						
Production	4 1/2"			5600'	5600'	CTS or 38 CSR 18-11.1
Tubing						
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)

1515

22

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Page 1 of 7
Form WW2-A
(6/94)
File Copy

JAN 08 1998

Permitting
Office of Oil & Gas

1) Date: January 6, 1998

2) Operator's well number
GSC Alumni Foundation #1

3) API Well No: 47 - 017 - 4425
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

4) Surface Owner(s) to be served: 5) (a) Coal Operator:

(a) Name Doris L. Fluharty
Address Rt.2 Box 179
West Union, WV 26456

Name N/A
Address

(b) Name
Address

(b) Coal Owner(s) with Declaration
Name N/A
Address

(c) Name
Address

Name
Address

6) Inspector
Address

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

Telephone (304)-

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
XX 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 7 on the above named parties, by:

- XX Personal Service (Affidavit attached)
- XX Certified Mail (Postmarked postal receipt attached)
- XX 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 Jack Production, Inc.

By: Gregory A. Smith
Its: Manager of West Virginia Operations
Address P.O. Box 697
Indiana, PA 15701

Telephone (412) 349-6800

Subscribed and sworn before me this 6th day of January, 1998

Gregory A. Smith Notary Public
My commission expires 12-7-2002

