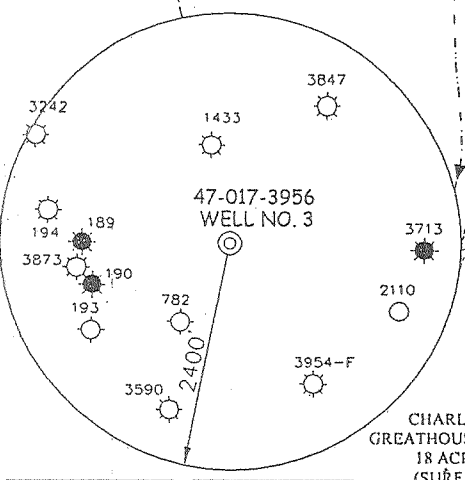
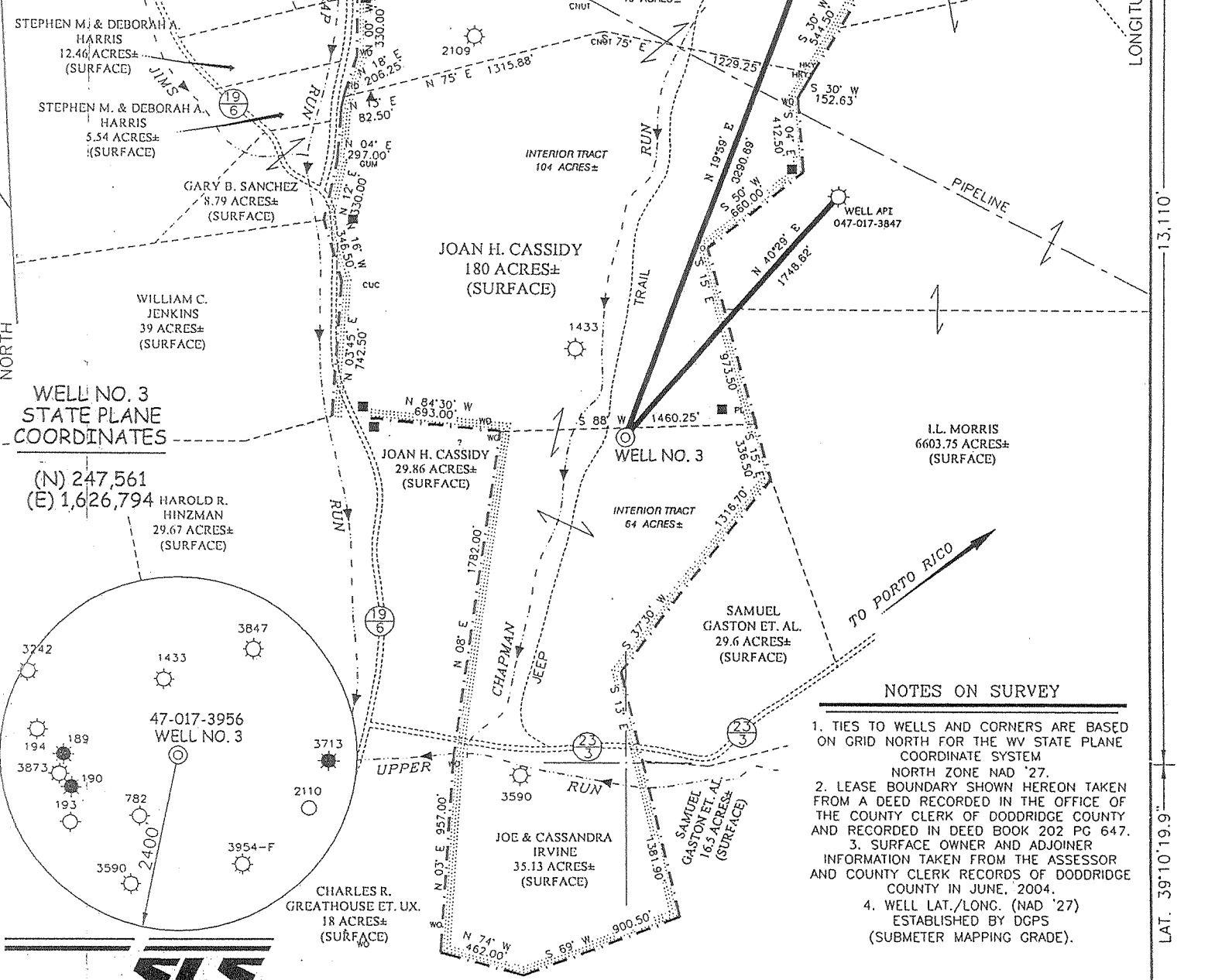


# CASSIDY LEASE

## 208 ACRES±

### WELL NO. 3

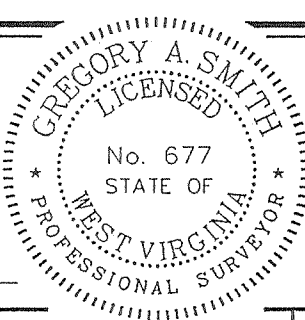
#### 047-017-3956



- #### NOTES ON SURVEY
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
  2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A DEED RECORDED IN THE OFFICE OF THE COUNTY CLERK OF DODDRIDGE COUNTY AND RECORDED IN DEED BOOK 202 PG 647.
  3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN JUNE, 2004.
  4. WELL LAT./LONG. (NAD '27) ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).

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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*



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

DATE SEPTEMBER 17, 20 04

OPERATORS WELL NO. CASSIDY NO. 3


API WELL NO. 47 - 017 - 3956

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 5046P3956 (173-47)

PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 800'

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



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

LOCATION :  
ELEVATION 932' 935' WATERSHED CHAPMAN RUN OF UPPER RUN

DISTRICT SOUTHWEST COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'

SURFACE OWNER JOAN H. CASSIDY ACREAGE 64± OF 180

ROYALTY OWNER MABEL G. HAUGHT ET. AL. LEASE ACREAGE 208±

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 BIG INJUN  
ESTIMATED DEPTH 1,750'

WELL OPERATOR TERM ENERGY CORP. DESIGNATED AGENT LEROY BAKER

ADDRESS 713 EAST MAIN STREET HARRISVILLE, WV 26362 ADDRESS 713 EAST MAIN STREET HARRISVILLE, WV 26362

COUNTY NAME DODDRIDGE  
PERMIT 3956 F

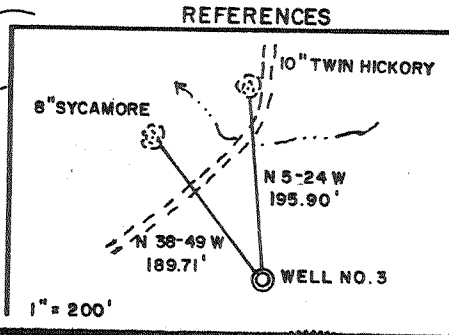
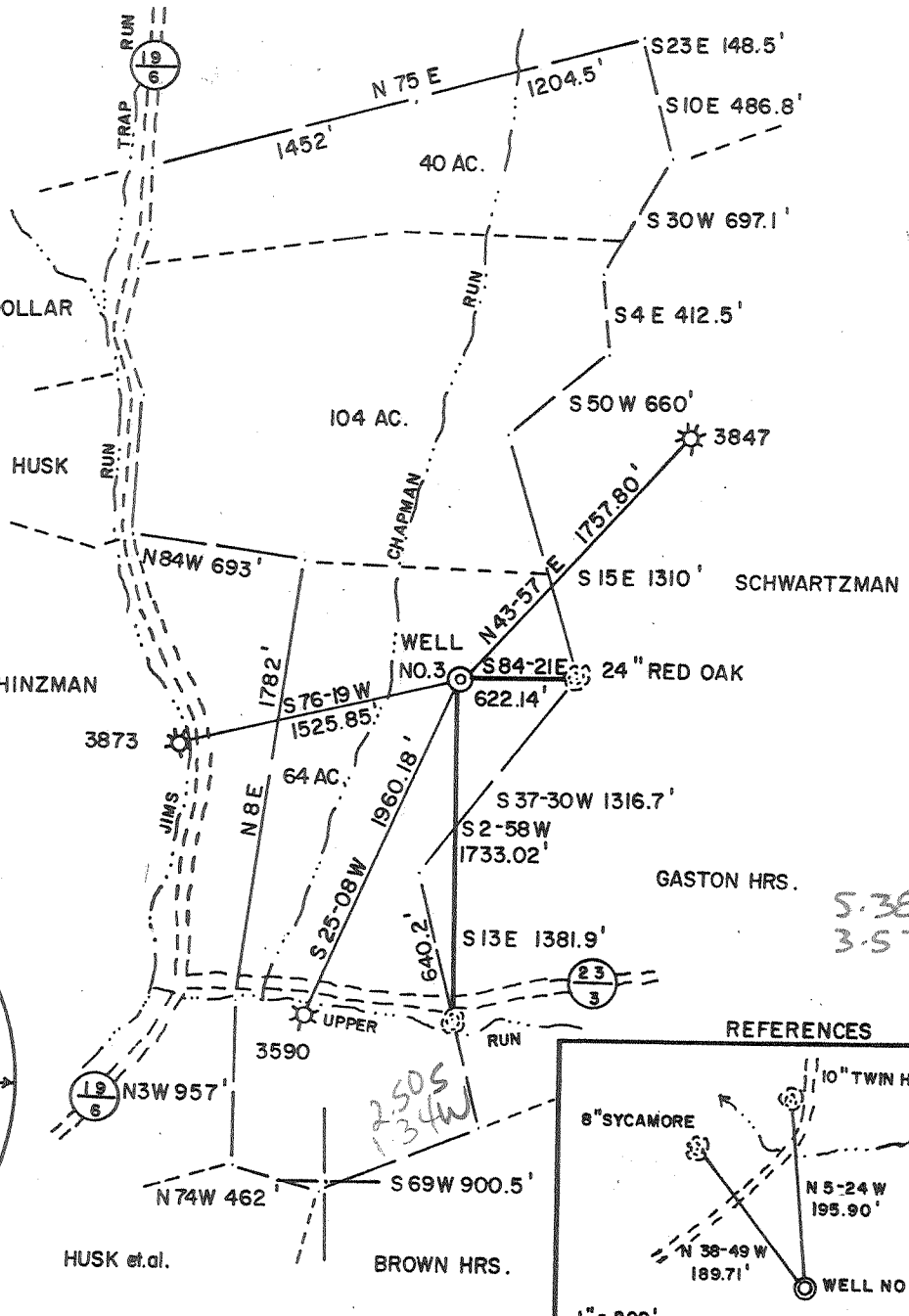
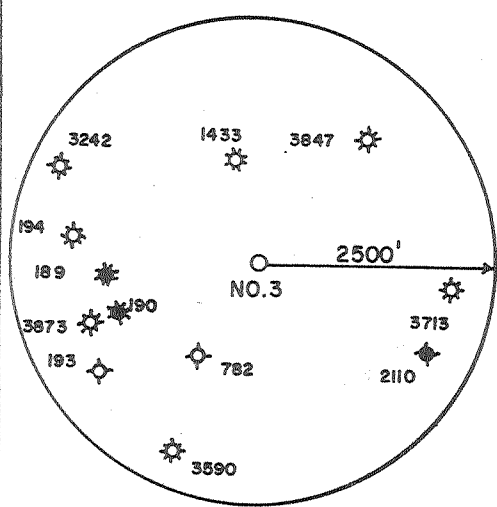
*Jamil*  
6/1/92  
**CASSIDY LEASE**  
**WELL NO. 3**

LATITUDE 39-12-30

**208 AC. ± TOTAL**

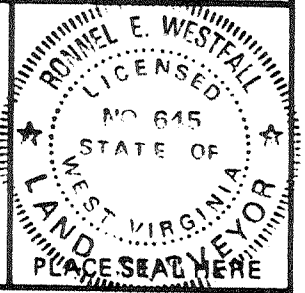
NORTH

LONGITUDE 80-47-30



FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY 1/200  
PROVEN SOURCE OF ELEVATION JUNCT. OF ROADS 856'

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) *James C. Westfall*  
R.P.E. \_\_\_\_\_ L.L.S. 645



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



DATE JAN. 21, 19 92  
OPERATOR'S WELL NO. CASSIDY NO. 3  
API WELL NO. \_\_\_\_\_  
47 - 017 - 3956  
STATE COUNTY PERMIT

**STATE OF WEST VIRGINIA**  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
LOCATION: ELEVATION 935' WATER SHED CHAPMAN RUN  
DISTRICT SOUTHWEST 7 COUNTY DODDRIDGE  
QUADRANGLE OXFORD 7.5' *Holbrook NE*  
SURFACE OWNER JOAN H. CASSIDY ACREAGE 64  
OIL & GAS ROYALTY OWNER MABEL G. HAUGHT et. al. LEASE ACREAGE 64 OF 208  
LEASE NO. \_\_\_\_\_  
PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5300'  
WELL OPERATOR TERM ENERGY CORP. DESIGNATED AGENT JEAN FREELAND  
ADDRESS 713 E MAIN ST. ADDRESS 713 E MAIN ST.  
HARRISVILLE, WV 26362 HARRISVILLE, WV 26362

JUN 10 1992

6-6 *Autumn* (132) (133)

Farm name: Cassidy  
 LOCATION: Elevation: 935'  
 District: South west  
 Latitude: 13110 Feet South of 39 Deg. 10  
 Longitude: 7010 Feet West of 80 Deg. 48

Operator Well No.: # 3  
 Quadrangle: Oxford 7.5'  
 County: Doddridge  
 Min. 19.9 Sec.  
 Min. 59.0 Sec.

Company: TERM Energy Corporation

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>713 East Main Street</u> <u>Harrisville, WV 26362</u>				
Agent: <u>Leroy Baker</u>	<u>See</u>	<u>Previous</u>	<u>Wr-35</u>	
Inspector: <u>Mike Underwood</u>				
Date Permit Issued: <u>9/24/04</u>				
Date Well Work Commenced: <u>10/06/04</u>	<u>4 1/2"</u>	<u>Squeeze</u>	<u>cemented</u>	<u>196 cu. ft.</u>
Date Well Work Completed: <u>10/21/04</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Depth (feet):				
Fresh Water Depth (ft.): <u>N/A</u>				
Salt Water Depth (ft.): <u>N/A</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>N/A</u>				

RECEIVED  
 Office of Oil & Gas  
 Office of Chief  
 DEC 27 2004  
 WV Department of  
 Environmental Protection

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) 1721' - 1735'  
 Gas: Initial open flow - MCF/d Oil: Initial open flow 0 Bbl/d  
 Final open flow 30 MCF/d Final open flow 0 Bbl/d  
 Time of open flow between initial and final tests          Hours  
 Static rock Pressure 235 psig (surface pressure) after 16 Hours  
**Commingled with previous history**  
 Second producing formation          Pay zone depth (ft)           
 Gas: Initial open flow          MCF/d Oil: Initial open flow          Bbl/d  
 Final open flow          MCF/d Final open flow          Bbl/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 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.

Signed:          TERM Energy Corporation  
 By:           
 Date: 12/22/04

BJ Service Single Stage Foam Frac

1<sup>st</sup> Stage Big Injun ( 28 holes ) ( 1721' - 1735' )

90 Quality Foam, 12 bbls. 15% HCL acid,  
 1000 # LiteProp125 , 374,000 scf N<sub>2</sub>,  
 84.5 bbls. Fluid

JAN 07 2005

*Mc*

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Cassidy Operator Well No.: # 3  
 LOCATION: Elevation: 935' Quadrangle: Oxford 7.5'  
 District: South west County: Doddridge  
 Latitude: 13110 Feet South of 39 Deg. 10 Min. 19.9 Sec.  
 Longitude: 7010 Feet West of 80 Deg. 48 Min. 59.0 Sec.

Company: TERM Energy Corporation

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>713 East Main Street</u> <u>Harrisville, WV 26362</u>				
Agent: <u>Leroy Baker</u>	<u>See</u>	<u>Previous</u>	<u>Wr-35</u>	
Inspector: <u>Mike Underwood</u>				
Date Permit Issued: <u>9/24/04</u>				
Date Well Work Commenced: <u>10/06/04</u>	<u>4 1/2"</u>	<u>Squeeze</u>	<u>cemented</u>	<u>196 cu. ft.</u>
Date Well Work Completed: <u>10/21/04</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Depth (feet):				
Fresh Water Depth (ft.): <u>N/A</u>				
Salt Water Depth (ft.): <u>N/A</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>N/A</u>				

RECEIVED  
Office of Oil & Gas  
Office of Chief  
DEC 27 2004  
WV Department of  
Environmental Protection

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) 1721' - 1735'  
 Gas: Initial open flow - MCF/d Oil: Initial open flow 0 Bbl/d  
 Final open flow 30 MCF/d Final open flow 0 Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock Pressure 235 psig (surface pressure) after 16 Hours  
**Commingled with previous history**  
 Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/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 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.

Signed: \_\_\_\_\_  
 By: [Signature]  
 Date: 12/22/04

JAN 07 2005

0000 3956 F

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

M 2 2  
Permitting  
Office of Oil & Gas

Reviewed TMG  
Recorded \_\_\_\_\_

Well Operator's Report of Well Work

Farm name: CASSIDY, JOAN H. Operator Well No.: CASSIDY #3

LOCATION: Elevation: 935.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE  
Latitude: 13180 Feet South of 39 Deg. 12Min. 30 Sec.  
Longitude 7050 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: TERM ENERGY CORP.  
713 EAST MAIN STREET  
HARRISVILLE, WV 26362-0000

Agent: JEAN FREELAND

Inspector: MIKE UNDERWOOD  
Permit Issued: 06/01/92  
Well work Commenced: 06/24/92  
Well work Completed: 07/16/92  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary x Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 5017  
Fresh water depths (ft) 143  
Salt water depths (ft) none  
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 Up Cu. Ft.
11 3/4"	17'	0	---
8 5/8"	1038'	1038'	271.4
4 1/2"	4974'	4974'	774

OPEN FLOW DATA

Producing formation Alexander & Leopold Pay zone depth (ft) 4758.5 - 4900  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours  
Comingled Production Gordon, Benson Stray  
Second producing formation and Benson Pay zone depth (ft) 2365 - 4607  
Gas: Initial open flow 600 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 450 MCF/d Final open flow show Bbl/d  
Time of open flow between initial and final tests 24 Hours  
Static rock Pressure 1100 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: Term Energy Corp.  
TERM ENERGY CORP.  
By: Jean Freeland  
Date: July 16, 1992 Jean Freeland

AUG 10 1992

07/16/92

PERFORATED:	ALEXANDER	4894 - 4904;	14	HOLES	.39
	LEOPOLD	4758.5 - 4760;	4	HOLES	.39
	BENSON	4604 - 4607;	7	HOLES	.39
	BENSON STRAY	4528 - 4530;	5	HOLES	.39
	GORDON	2365 - 2369.5;	9	HOLES	.39

THREE STAGE ENERGIZED WATER FRAC

- ALEXANDER & LEOPOLD: MAX TR PRESS 2863; AVG RATE 28.1; AVG PRESS 2700; 35,000# 20/40; 5,000# 80/100; MAX CONC 4; TOTAL ACID 500 GAL; ISIP 1074; 5 MIN SIP 967; TOTAL NITROGEN 75,000 SCF; TOTAL FLUIDS 454 BBLs.
- BENSON & BENSON STRAY: MAX TR PRESS 3119; AVG RATE 28; AVG PRESS 2954; 35,000# 20/40; 5,000# 80/100; MAX CONC 3; TOTAL ACID 1000 GAL; ISIP 1143; 5 MIN SIP 1040; TOTAL NITROGEN 80,000 SCF; TOTAL FLUIDS 561 BBLs.
- GORDON: MAX TR PRESS 3620; AVG RATE 21.3; AVG PRESS 3480; 30,000# 20/40; 5,000# 80/100; MAX CONC 3.5; TOTAL ACID 500 GAL; ISIP 1968; 5 MIN SIP 1619; 10 MIN SIP 1528; TOTAL NITROGEN 64,000 SCF; TOTAL FLUIDS 393 BBLs.

<u>WELL LOG</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>WATER</u>
SAND, SHALE, & RR	0	1610	143' - 1 1/2" STREAM
LITTLE LIME	1610	1634	
SAND & SHALE	1634	1650	
BIG LIME	1650	1710	
BIG INJUN	1710	1782	
SAND & SHALE	1782	5017	

<u>GEOPHYSICAL LOG</u>	<u>TOP</u>	<u>BOTTOM</u>
BIG LIME	1650	1715
BIG INJUN	1715	1786
WEIR	1937	2063
BEREA	2137	2139
GORDON	2363	2371
WARREN	2996	3052
SPEECHLY	3067	3611
BALLTOWN	3748	4118
BRADFORD	4170	4238
BENSON STRAY	4518	4537
BENSON	4602	4611
LEOPOLD	4725	4810
ALEXANDER	4846	4949

13716

MAY 15 1994

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

Drawn 06/01/92

Permitting WELL WORK PERMIT APPLICATION  
Office of Oil & Gas

Expires 06/01/94  
(7) 525

- 1) Well Operator: Term Energy Corporation 49105
- 2) Operator's Well Number: Cassidy #3 3) Elevation: 935'
- 4) Well type: (a) Oil   / or Gas XX/  
(b) If Gas: Production   / Underground Storage   /  
Deep   / Shallow XX
- 5) Proposed Target Formation(s): Alexander
- 6) Proposed Total Depth: 5300 feet
- 7) Approximate fresh water strata depths: 130' 345'
- 8) Approximate salt water depths: 1400'
- 9) Approximate coal seam depths: 0
- 10) Does land contain coal seams tributary to active mine? Yes   / No XX/
- 11) Proposed Well Work: Drill & Stimulate new well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight/ per ft.	For drilling	Left in well	
Conductor	11 3/4"	J-55	42#	17'	0	38CSP1811.3 38CSP1811.2.2 d.k. MLC
Fresh Water	8 5/8"	J-55	20#	1035'	1035'	
Coal						
Intermediate						
Production	4 1/2"	J-55	11.6# 10.5#	84' 4941'	84' 4941'	38CSP1811.1 250
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      Blanket Agent  
(Type)

545 20

Permitting  
Office of Oil & Gas  
MAY 15 92

1) Date: March 9, 1992  
2) Operator's well number  
Cassidy #3  
3) API Well No: 47 - 017 - 3956  
State - County - Permit

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

- |  |   |
|--|---|
| <p>4) Surface Owner(s) to be served:<br/>         (a) Name <u>Joan H. Cassidy</u><br/>         Address <u>203 Central Ave</u><br/>         or Rt. <u>1 West Union Lynbrook, NY 11563</u><br/>         (b) Name <u>WV 26456</u><br/>         Address _____<br/>         _____<br/>         (c) Name _____<br/>         Address _____<br/>         _____</p> <p>6) Inspector <u>Mike Underwood</u><br/>         Address <u>Rt. 2 Box 135</u><br/> <u>Salem, WV 26426</u><br/>         Telephone (304)- _____</p> | <p>5) (a) Coal Operator:<br/>         Name <u>None</u><br/>         Address _____<br/>         _____<br/>         (b) Coal Owner(s) with Declaration<br/>         Name _____<br/>         Address _____<br/>         _____<br/>         Name _____<br/>         Address _____<br/>         _____<br/>         (c) Coal Lessee with Declaration<br/>         Name <u>N/A</u><br/>         Address _____<br/>         _____</p> |
|--|---|

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)  
XX \_\_\_\_\_ 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 Term Energy Corp.  
 By: Jean Freeland *Jean Freeland*  
 Its: \_\_\_\_\_ Designated Agent  
 Address 713 E. Main Street  
Harrisville, WV 26362  
 Telephone 304 643-4500

Subscribed and sworn before me this 4th day of MAY, 1992  
Rodney C. Windom  
 My commission expires JUNE 12, 1994 Notary Public