

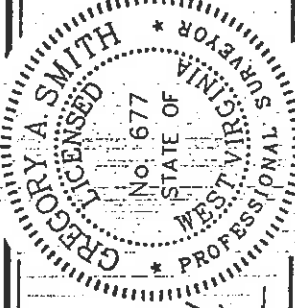
**CASSIDY LEASE**  
**208 ACRES ±**  
**WELL NO. 2**  
**047-017-3842**

**NOTES ON SURVEY**

1. TIES TO WELLS' AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WY. 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, 2002.
4. WELL LAT./LONG. ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).

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 DIVISION OF ENVIRONMENTAL PROTECTION

P.S. 677  
*Gregory A. Smith*  
 PROFESSIONAL SURVEYOR



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE OCTOBER 28 20 02  
 OPERATORS WELL NO. CASSIDY NO. 2  
 API WELL NO. 47-017-3842 STATE WV COUNTY DODDRIDGE PERMIT

MINIMUM DEGREE OF ACCURACY: 1 / 200 FILE NO. 5046P3842 (125-36)  
 PROVEN SOURCE OF ELEVATION: JUNCTION OF ROADS ELEVATION = 9CU SCALE: 1" = 800'

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

WELL TYPE: OIL  GAS  LIQUID WASTE INJECTION  DISPOSAL  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1,123' WATERSHED TRAP RUN  
 DISTRICT SOUTHWEST COUNTY DODDRIDGE  
 SURFACE OWNER JOAN H. CASSIDY QUADRANGLE OXFORD 7.5'  
 ROYALTY OWNER MABEL G. HAUGHT ET AL. ACREAGE 40± OF 180  
 PROPOSED WORK: LEASE ACREAGE 208±  
 DRILL  CONVERT  DRILL DEEPER  REDRILL  LEASE NO. \_\_\_\_\_  
 FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  FRACTURE OR STIMULATE  PLUG OFF OLD  
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_ OTHER \_\_\_\_\_  
 TARGET FORMATION BIG INJUN  
 ESTIMATED DEPTH 2,100'

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

D000 3842 F  
 COUNTY NAME PERMIT

Janie 7/17/90

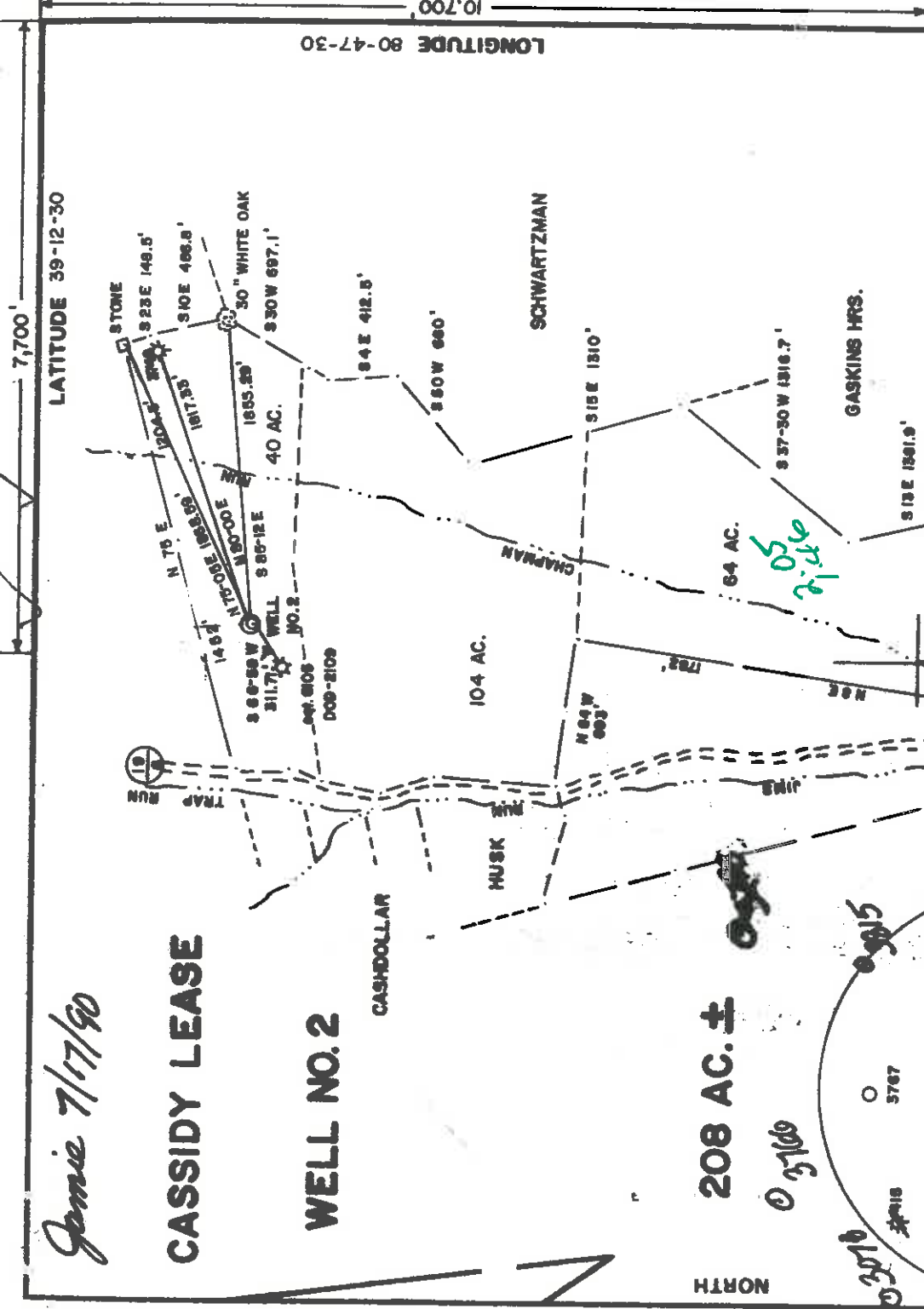
# CASSIDY LEASE

## WELL NO. 2

CASHDOLLAR

208 AC. ±

NORTH



LONGITUDE 80-47-30

LATITUDE 39-12-30

10,700

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF \_\_\_\_\_  
 ACCURACY 1/200  
 PROVEN SOURCE OF \_\_\_\_\_  
 ELEVATION JUNCTION OF ROADS \_\_\_\_\_  
 ELEV. 900'

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) Robert H. Davis  
 R.P.E. \_\_\_\_\_ L.L.S. 800



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

DATE JULY 8th, 19 90  
 OPERATOR'S WELL NO. CASSIDY NO. 2  
 API WELL NO. 47-017-3842  
 STATE WV COUNTY Frac. 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 1130 WATER SHED TRAP RUN  
 DISTRICT SOUTHWEST COUNTY DODDRIDGE  
 QUADRANGLE OXFORD 7.5 ACREAGE 40  
 SURFACE OWNER JOAN H. CASSIDY LEASE ACREAGE 208

OIL & GAS ROYALTY OWNER MABEL G. HAUGHT, et al.  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  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 5350'  
 WELL OPERATOR TERM ENERGY CORP. DESIGNATED AGENT JEAN FREELAND  
 ADDRESS 110 N SPRING ST. ADDRESS 110 N SPRING ST.  
HARRISVILLE, WV 26362 HARRISVILLE, WV 26362

6-6 Straight Fork - Bluestone Creek (133)

2783 AD00



Janie 7/17/90

# CASSIDY LEASE

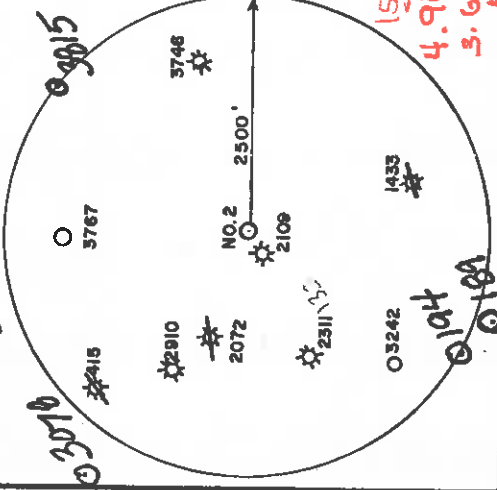
## WELL NO. 2

CASHDOLLAR

208 AC. ±

NORTH

37100



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF \_\_\_\_\_  
 ACCURACY 1/200  
 PROVEN SOURCE OF \_\_\_\_\_  
 ELEVATION JUNCTION OF ROADS \_\_\_\_\_  
 ELEV. 900'

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) Robert H. Cassidy

R.P.E. \_\_\_\_\_ L.L.S. 800

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



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 1130' WATER SHED TRAP RUN  
 DISTRICT SOUTHWEST COUNTY DODDRIDGE

QUADRANGLE OXFORD 7.5' ACREAGE 40  
 SURFACE OWNER JOAN H. CASSIDY LEASE ACREAGE 208  
 OIL & GAS ROYALTY OWNER MABEL G. HAUGHT, et. al.

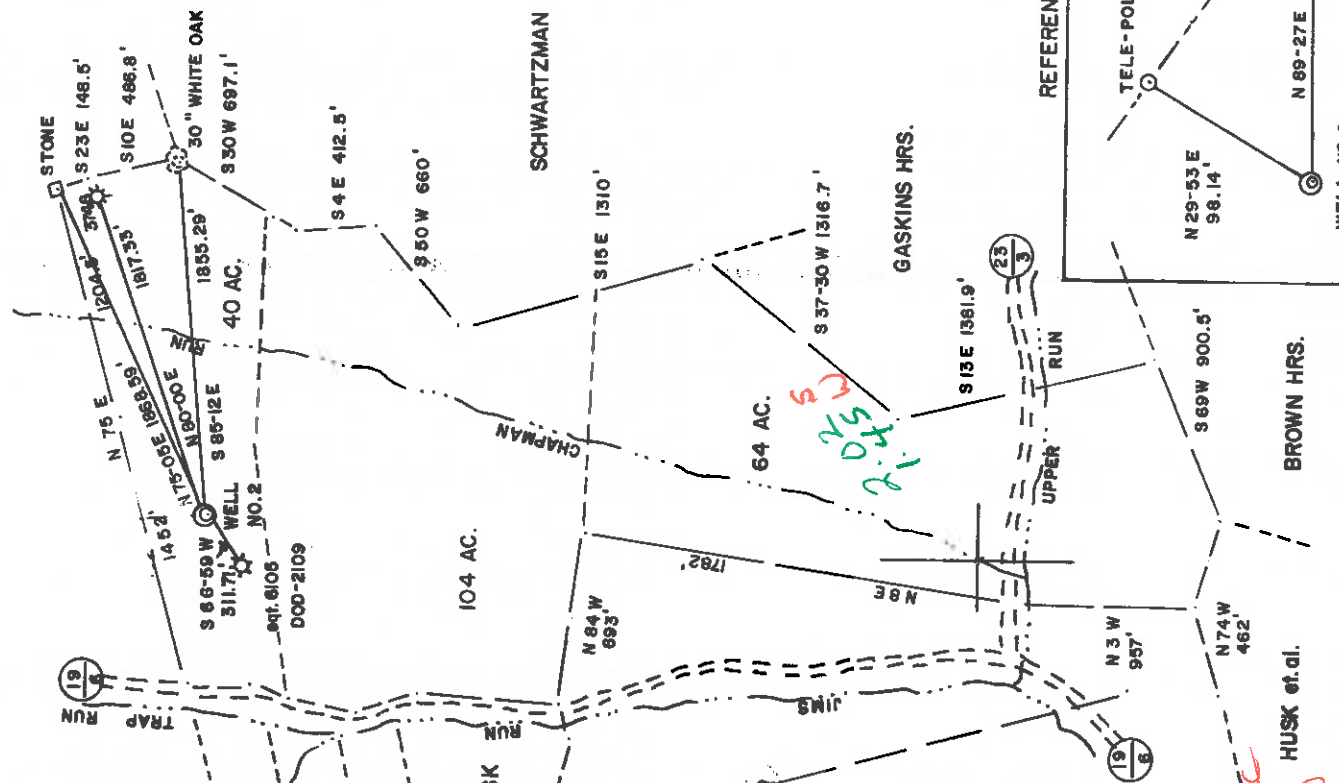
PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5350'  
 WELL OPERATOR TERM ENERGY CORP. 886 DESIGNATED AGENT JEAN FREELAND  
 ADDRESS 110 N. SPRING ST. ADDRESS 110 N. SPRING ST.  
 HARRISVILLE, WV 26362 HARRISVILLE, WV 26362

JUL 20 1990

6-6 Straight Fork - Bluestone Creek (133)

LATITUDE 39-12-30  
LONGITUDE 80-47-30  
7,700'  
10,700'



REFERENCES  
 TELE-POLE  
 N 29-53 E 98.14'  
 N 69-27 E 167.07'  
 TELE-POLE  
 WELL NO. 2 1" = 100'

PLACE SEAL HERE



*ms*

Well Operator's Report of Well Work

Farm name: Cassidy  
LOCATION: Elevation: 1123'  
District: Southwest  
Latitude: 10720 Feet South of 39 Deg. 12 Min. 30 Sec.  
Longitude: 7650 Feet West of 80 Deg. 47 Min. 30 Sec.

Operator Well No.: #2  
Quadrangle: Oxford 7.5'  
County: Doddridge

Company: TERM Energy Corporation

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<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>11/07/2002</u>				
Date Well Work Commenced: <u>11/13/02</u>				
Date Well Work Completed: <u>11/21/02</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rtg				
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>				

OPEN FLOW DATA

Producing formation Salt sand, Maxon & Big Injun Pay zone depth (ft) 2357' - 4417'  
 Gas: Initial open flow 25 MCF/d Oil: Initial open flow      Bbl/d  
 Final open flow 126 MCF/d Final open flow      show Bbl/d  
 Time of open flow between initial and final tests      Hours  
 Static rock Pressure      psig (surface pressure) after      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: [Signature]  
 Date: 3/28/05

6-6 (133)

RECEIVED  
Office of Oil & Gas  
Office of Chief  
MAR 31 2005  
WV Department of Environmental Protection

MAY 27 2005

D000 3842 F

11/13/02 Squeeze Cemented with 185 sks 50/50 poz from 2070' to 1310'

Perforated only no frack required

Big Injun (20 holes) (1977' - 1987')  
Big Injun (28 holes) (1937' - 1951')  
Big Injun (20 holes) (1918' - 1928')  
Maxon (20 holes) (1710' - 1720')  
Salt Sand (28 holes) (1602' - 1616')

MAY 27 2005

Reviewed TMG State of West Virginia  
Recorded CH Division of Environmental Protection  
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: CASSIDY, JOAN H. Operator Well No.: CASSIDY 2

LOCATION: Elevation: 1130.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE  
Latitude: 10700 Feet South of 39 Deg. 12Min. 30 Sec.  
Longitude 7700 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: 11/20/92  
Well work Commenced: 11/05/92 verbal  
Well work Completed: 11/05/92 Permission  
Verbal Plugging

Permission granted on: \_\_\_\_\_ Rig  
Rotary XX Cable \_\_\_\_\_  
Total Depth (feet) 5259'  
Fresh water depths (ft) 412 - damp

Salt water depths (ft) None

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

OPEN FLOW DATA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	25'	0	0
8 5/8"	1230.2	1230.2	330.4
4 1/2"	5186.2	5186.2	864.6

Producing formation: Leopold & Alexander

Gas: Initial open flow Benson, Benson Stray MCF/d Oil: Initial open flow Pay zone depth (ft) 4737-5130 Bbl/d  
Final open flow 119 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

Comingled Production

Second producing formation: Gordon  
Gas: Initial open flow MCF/d Oil: Initial open flow Pay zone depth (ft) 580.5-2583 Bbl/d  
Final open flow 335 MCF/d Final open flow show Bbl/d  
Time of open flow between initial and final tests 36 Hours  
Static rock pressure 510 psig (surface pressure) after 36 Hours

MAN  
2000  
Comp.

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.

RECEIVED

WV Division of Environmental Protection

DEC 0 8 92

Permitting Office of Oil & Gas

For: Term Energy Corp  
TERM ENERGY CORP.

BY: Jean Freeland  
Date: December 7, 1992  
Jean Freeland, Designated Agent



CASSIDY #2 RE FRAC

11-05-92

SET WIDE MOUTH PLUG AT 2595' AND FRAC GORDON

PERFORATED: GORDON 2580.5 - 2583; 8 HOLES .39

ONE STAGE ENGERGIIZE WATER FRAC

GORDON:

MAX TR PRESS 3975; AVG RATE 18.8; AVG PRESS 3632;  
43,700# 20/40; 5,000# 80/100; MAX CONC 3.5; TOTAL  
ACID 500 GAL; ISIP 1917; 5 MIN SIP 1620; TOTAL  
NITROGEN 78,000 SCF; TOTAL FLUIDS 437 BBLs.

TD 5259

OF 424  
439

9FT

**RECEIVED**

WV Division of  
Environmental Protection

DEC 0 8 92

Permitting  
Office of Oil & Gas

24372

State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

## Well Operator's Report of Well Work

Farm name: CASSIDY, JOAN H. Operator Well No.: CASSIDY 2

LOCATION: Elevation: 1130.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE  
Latitude: 10700 Feet South of 39 Deg. 12Min. 30 Sec.  
Longitude 7700 Feet West of 80 Deg. 47 Min. 30 Sec.Company: TERM ENERGY CORP.  
110 N. SPRING ST.  
HARRISVILLE, WV 26362-0000

Agent: JEAN FREELAND

Inspector: MIKE UNDERWOOD  
Permit Issued: 07/18/90  
Well work Commenced: 07/19/90  
Well work Completed: 08/02/90  
Verbal Plugging  
Permission granted on: Rig  
Rotary xx Cable 5259  
Total Depth (feet) 412 - DAMP  
Fresh water depths (ft) 412 - DAMPSalt water depths (ft) NONEIs coal being mined in area (Y/N)? N  
Coal Depths (ft):

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Cu. Ft.
11 3/4"	25'	0	0
8 5/8"	1230.2'	1230.2'	330.4
4 1/2"	5186.2'	5186.2'	864.6

## OPEN FLOW DATA

Producing formation Alexander & Leopold Pay zone depth (ft) 4968 to 5130  
 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 Benson & Benson Stray Pay zone depth (ft) 4737 to 4819  
 Second producing formation MCF/d Oil: Initial open flow Bbl/d  
 Gas: Initial open flow MCF/d Final open flow Bbl/d  
 Final open flow 625 MCF/d Final open flow Bbl/d  
 Time of open flow between initial and final tests 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

By: J. M. Freeland Jean Freeland, AgentDate: August 7, 1990

DEC 28 1990

3/07/90 PERFORATED ALEXANDER 5079 - 5130; 18 HOLES .39  
 LEOPOLD 4968 - 4970; 3 HOLES .39  
 BENSON 4815 - 4819; 6 HOLES .39  
 BENSON STRAY 4737 - 4743; 8 HOLES .39

2 STAGE FRAC  
 1ST STAGE WATER  
 2ND STAGE ENERGIZED WATER

- ALEXANDER & LEOPOLD: MAX TR PRESS 3950; AVG RATE 31.3; AVG PRESS 2397;  
 28,500# 20/40; 10,000# 80/100, MAX CONC 4,  
 TOTAL ACID 1000 GAL; TOTAL FLUID 540 BBLs;

- BENSON & BENSON STRAY: MAX TR PRESS 3560; AVG RATE 23.4; AVG PRESS 3189;  
 41,000# 20/40; 10,000# 80/100; MAX CONC 4;  
 TOTAL ACID 500 GAL; ISIP 2038; 5 MIN SIP 1100;  
 TOTAL NITROGEN 68,000 SCF; TOTAL FLUIDS 557 BBLs

WELL LOG	TOP	BOTTOM	WATER
SAND, SHALE & RR	0	1844	412' - DAMP
BIG LIME	1844	1912	
BIG INJUN	1912	1993	
SAND & SHALE	1993	5259	

GEOPHYSICAL LOG	TOP	BOTTOM
BIG LIME	1840	1913
BIG INJUN	1913	1993
WEIR	2151	2274
BEREA	2347	2351
GORDON	2578	2585
WARREN	3210	3264
SPEECHLY	3280	3832
BALLTOWN	3966	4328
BRADFORD	4384	4446
RILEY	4611	4732
BENSON STRAY	4732	4750
BENSON	4812	4821
LEOPOLD	4938	5022
ALEXANDER	5054	5156

OCT 0 2 92

Drawn 11/20/92

Expires 11/20/94

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

Well Operator: TERM Energy Corporation 49105 (7) 525  
Office of Oil & Gas

Operator's Well Number: Cassidy #2

Well type: (a) Oil  or Gas  / 3) Elevation: 1130

(b) If Gas: Production  / Underground Storage  / Shallow  / Deep

- 5) Proposed Target Formation(s): Gordon 419
- 6) Proposed Total Depth: 5259 (actual) feet
- 7) Approximate fresh water strata depths: 412' damp (actual)
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes  No

11) Proposed Well Work: Set small mouth plug below Gordon, Frac Gordon Sands (2578-2585  
Comingle Production with lower production

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 3/4"	J-55	42#	25'	0	0
Fresh Water	8 5/8"	J-55	20# \$ 23#	1230.2'	1230.2'	330.4
Coal						
Intermediate						
Production	4 1/2"	J-55	11.6 & 10.5	5186.2'	5186.2	864.6
Tubing						
Liners						

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

26/34

For Division of Oil and Gas Use Only

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

COT 0 2 92

Permitting  
Office of Oil & Gas

1) Date: September 29, 1992  
2) Operator's well number  
Cassidy #2  
3) API Well No: 47 - 017 - 3842  
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 Joan H. Cassidy  
Address 203 Central Ave.  
Lynbrook, NY 11563

(b) Name \_\_\_\_\_  
Address \_\_\_\_\_

(c) Name \_\_\_\_\_  
Address \_\_\_\_\_

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_

(b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

6) Inspector Mike Underwood  
Address Rt. 2 Box 135  
Salem, WV 26426  
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 Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

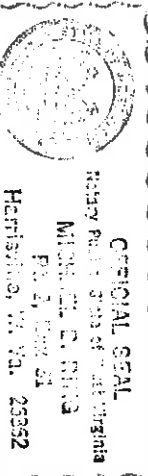
I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by: \_\_\_\_\_

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.



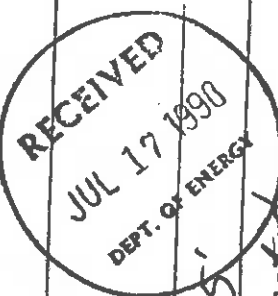
Well Operator Jean Freeland  
TERM Energy Corporation  
By: Jean Freeland  
Its: Designated Agent  
Address 713 E. Main St.  
Harrisonville, WV 26362  
Telephone (304) 643-4500

Subscribed and sworn before me this 29th day of September, 1992

Mike Underwood Notary Public  
My commission expires September 21, 1998

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

- 1) Well Operator: TERM Energy Corp. 49105 (7) 525
- 2) Operator's Well Number: Cassidy #2 3) Elevation: 1130'
- 4) Well type: (a) Oil  or Gas  /  
(b) If Gas: Production  / Underground Storage  /  
Deep  / Shallow
- 5) Proposed Target Formation(s): Alexander
- 6) Proposed Total Depth: 5350 feet
- 7) Approximate fresh water strata depths: 344' 130'
- 8) Approximate salt water depths: 0' 1435' 1705'
- 9) Approximate coal seam depths: 0' OK None Reported
- 10) Does land contain coal seams tributary to active mine? Yes  No
- 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	
Fresh Water	8 5/8"	J-55	20#	1190'	1190'	
Coal			23#	40'	40'	CTS
Intermediate						
Production	4 1/2'	J-55	11.6#	84'	84'	
Tubing			10.5#	5166'	5166'	750
Lines						

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

1256  
19

Fee(s) paid: \_\_\_\_\_  
Plat WW-9 Blanket letter Bond Blanket letter (Type)  
Reclamation Fund Blanket letter WPCP Agent

10501

1) Date: July 11, 1990  
2) Operator's well number  
Cassidy #2  
3) API Well No: 47 - 017 - 3842  
State - County - Permit

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

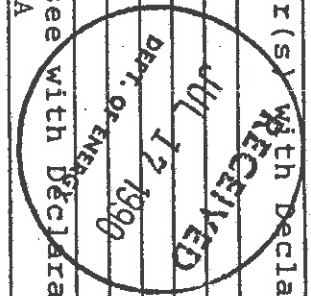
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:

(a) Name	<u>Joan H. Cassidy</u>	5) (a) Coal Operator:	Name	<u>None</u>
Address	<u>203 Central Ave. Lynchbrook, NY 11563</u>	Address	Address	
(b) Name		(b) Coal Owner(s)	Name	
Address		Address	Address	
(c) Name		Name	Name	
Address		Address	Address	

6) Inspector Mike Underwood

Address	<u>Rt. 2 Box 135 Salem, WV 26426</u>	(c) Coal Lessee with Declaration	Name	<u>N/A</u>
Telephone	<u>(304) - 782-1043</u>	Address	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 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.

OFFICIAL SEAL  
Notary Public, State of West Virginia  
CARLEEN K. TINGLER  
RT. 3, BOX 35  
SMITHVILLE, WV 26178  
My Commission Expires March 7, 2000

Well Operator Jean Freeland TERM Energy Corp  
By: Jean Freeland Agent  
Its: 110 North Spring Street  
Address Harrisville, WV 26362  
Telephone (304) 643-4500

Subscribed and sworn before me this 11th day of July, 19 90  
My commission expires March 7, 2000 Carleen K. Tingler Notary Public