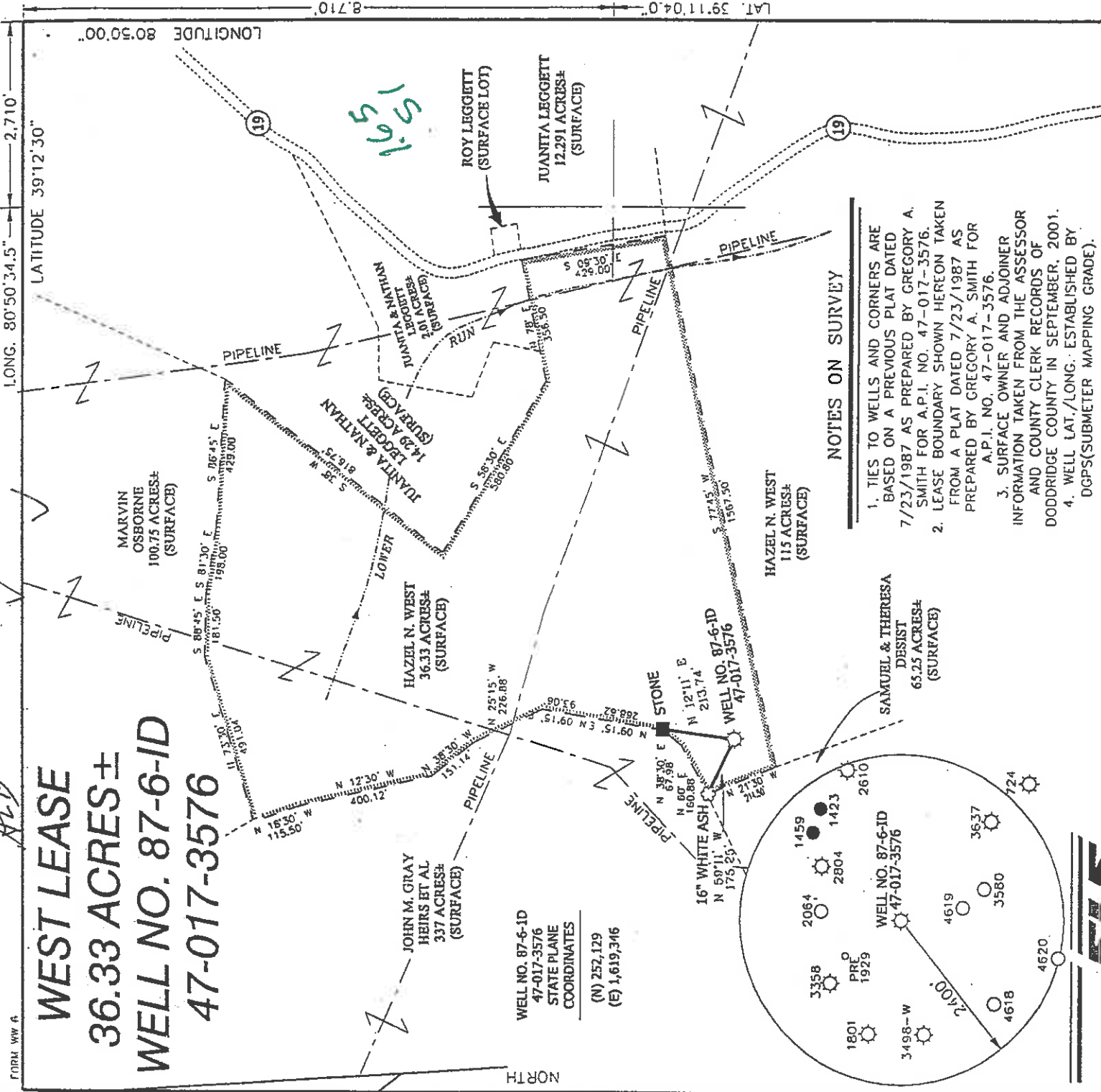


WEST LEASE 36.33 ACRES ± WELL NO. 87-6-ID 47-017-3576



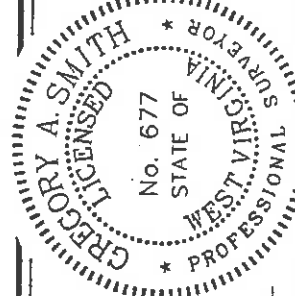
WELL NO. 87-6-ID
47-017-3576
STATE PLANE
COORDINATES
(N) 252,129
(E) 1,619,346

NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON A PREVIOUS PLAT DATED 7/23/1987 AS PREPARED BY GREGORY A. SMITH FOR A.P.I. NO. 47-017-3576. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT DATED 7/23/1987 AS PREPARED BY GREGORY A. SMITH FOR A.P.I. NO. 47-017-3576.
2. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN SEPTEMBER, 2001.
3. WELL LAT./LONG. 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. *Gregory A. Smith*
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE SEPTEMBER 19, 2001
OPERATORS WELL NO. 87-6-ID
API WELL NO. 47-017-3576-F
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1677P1 (109-73)
PROVEN SOURCE SCALE 1" = 400'
OF ELEVATION TOP OF KNOB 1214'

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

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

LOCATION :
ELEVATION 1206'
DISTRICT SOUTHWEST COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'
SURFACE OWNER HAZEL N. WEST ACREAGE 36.33±
ROYALTY OWNER HAZEL N. WEST ET. AL. LEASE ACREAGE 36.33±
LEASE NO. _____
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) RECOMPLETE UPPER FORMATIONS, TARGET FORMATION BIG INJUN / RILEY ESTIMATED DEPTH 4550'

WELL OPERATOR TERM ENERGY DESIGNATED AGENT MICHAEL KELLEY
ADDRESS 713 EAST MAIN STREET HARRISVILLE, WV 26362

COUNTY NAME DODD PERMIT 3576 F

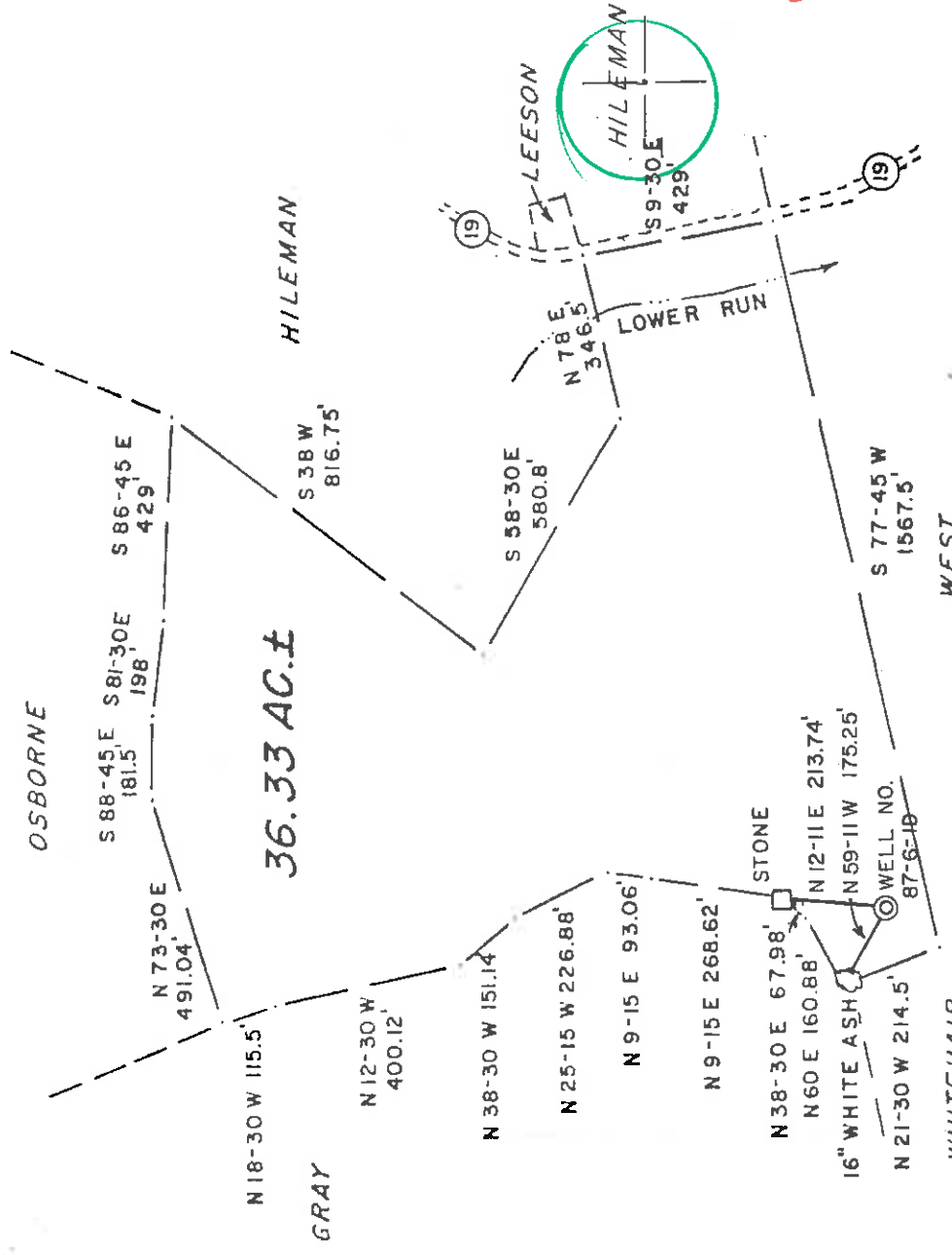
NOV 06 2001

89B 7/28/87
WEST LEASE

LATITUDE 39-12-30

WELL NO. 87-6-ID

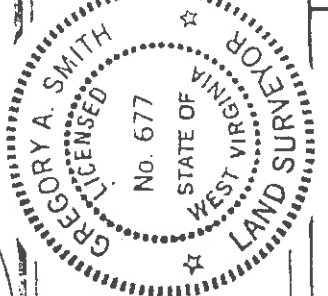
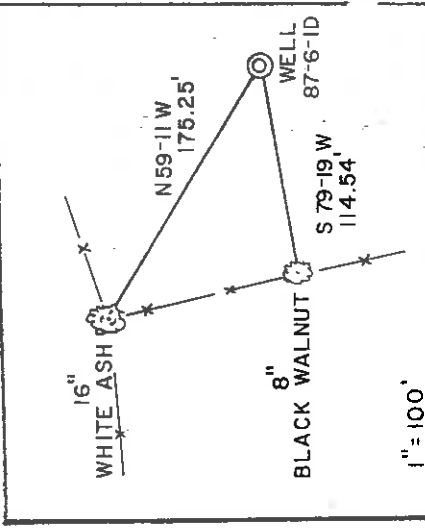
LONGITUDE 80-50-00



36.33 AC.±

Handwritten notes: 1.505, 1.505, 453, 0.500

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.

L.L.S. Gregory A. Smith
677

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS:
DATE JULY 23, 19 87
OPERATORS WELL NO. 87-6-ID
API WELL NO. 47 - 017 - 3576
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. 1214
FILE NO. 1677 (22-23)
SCALE 1" = 400'

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

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

LOCATION: ELEVATION 1195' DISTRICT SOUTH WEST 7 COUNTY DODDRIDGE
SURFACE OWNER HAZEL N. WEST
ROYALTY OWNER HAZEL N. WEST et al.
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 ALEXANDER
ESTIMATED DEPTH 5290'

WELL OPERATOR TERM ENERGY
ADDRESS 110 N. SPRING ST.
DESIGNATED AGENT MICHAEL KELLEY
ADDRESS 110 N. SPRING ST.
HARRISVILLE WV 26362
HARRISVILLE WV 26362 C-6 Straight Fork-Blower

AUG 03 1987

COUNTY NAME

PERMIT

ALP

Well Operator's Report of Well Work

Farm Name: West Operator Well No.: 87-6-ID
 LOCATION: Elevation: 1206' Quadrangle: Oxford 7.5'

District: Southwest County: Doddridge
 Latitude: 8710 Feet South of 39 Deg. 11 Mm. 04.0 Sec.
 Longitude 2710 Feet West of 80 Deg. 50 Mm. 34.5 Sec.

Company: TERM Energy Corp.

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
713 East Main St. Harrisville, WV 26362	1 1/4"		250'	155
Agent: Leroy Baker	7"		1462'	215
Inspector: Mike Underwood	4 1/2"		5290	365
Date Permit Issued: 11-06-01				
Date Well Work Commenced: 11-08-01				
Date Well Work Completed: 11-14-01				

RECEIVED
Office of Oil & Gas
Permitting
DEC 20 2001
WV Department of
Environmental Protection

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

OPEN FLOW DATA

Producing formation Alexander Pay zone depth (ft) 5195'-5237'
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 100 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure 400 psig (surface pressure) after 24 Hours
 Commingled Production
 Second producing formation Riley / Big Injun Pay zone depth (ft) see back
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 300 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure 335 psig (surface pressure) after 36 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: Leroy Baker
 By: Designated Agent
 Date: 12/17/01

FEB 01 2002

D000 3576 F

West #1
47-017-03576
11-14-01

PREFORATED
Riley 4524-4528; 12 Holes .39
Big Injun 2080-2090; 12 Holes .39

SET SMALL MOUTH PLUG AT 4550'
SET WIDE MOUTH PLUG AT 2110'

TWO STAGE

FRAC

-Riley
MAX TR PRESS 2675; AVG RATE 24.5; AVG PRESS 2435;
30,000 # 20/40; MAX CONC 4#; TOTAL ACID 500 GAL;
ISIP 1263; 5 MIN SIP 903; TOTAL NITROGEN 77,700 SCF;
TOTAL FLUIDS 464 BBLs.

-Big Injun
MAX TR PRESS 2636; AVG RATE 23; AVG PRESS 2432;
30,000 # 20/40; MAX CONC 4; TOTAL ACID 500 GAL;
ISIP 1537; 5 MIN SIP 1195; TOTAL NITROGEN 56,200 SCF;
TOTAL FLUIDS 389 BBLs.



RECEIVED
MAY 09 1988
State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date Sept. 14, 1987
Operator's Well No. West 87-6-1D
Farm West
API No. 47 - 017 - 3576

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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: 1195 Watershed Lower Run of Middle Fork of Hughes River
District: Southwest County Doddridge Quadrangle Oxford 7.5'

COMPANY TERM Energy Corporation
ADDRESS 110 N. Spring St, Harrisville, WV 26362
DESIGNATED AGENT Michael R. Kelley
ADDRESS 110 N. Spring St, Harrisville, WV 26362
SURFACE OWNER Hazel West
ADDRESS P.O. Box 121, Harrisville, WV 26362
MINERAL RIGHTS OWNER Hazel West, et. al.
ADDRESS Same

OIL AND GAS INSPECTOR FOR THIS WORK Mike Underwood
ADDRESS RT 2, Bx 114, Salem, WV
PERMIT ISSUED July 29, 1987
DRILLING COMMENCED Aug. 21, 1987
DRILLING COMPLETED Aug 27, 1987

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"	250	250	155
9 5/8			
8 5/8			
7	1462	1462	215
5 1/2			
4 1/2	5290	5290	365
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5237 feet

Depth of completed well 5290 feet Rotary x / Cable Tools

Water strata depth: Fresh 50 feet; Salt none feet

Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5237 feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow 2,760 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 1900 psig (surface measurement) after 8 hours shut in

(If applicable due to multiple completion--)

Second producing formation None 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

MAY 13 1988

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

Frac: 500 gal HCL
 7,157 ccf N₂
 65,200# 20/40 Sand
 9,900# 80/100 Sand
 330 bbl H₂O

Perfs: 5195-96
 5203-04
 5213
 5217-27
 5234-37

Total: 16 holes

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 MAY 09 1988

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Clay	Brown	Soft	0	3	Including indication of all fresh and salt water, coal, oil and gas
Sandy shale	Gray	Soft	3	15	
Sand	Gray	Hard	15	30	
Sandy shale	Gray	Soft	30	50	
Sand	Gray	Hard	50	80	
Shale and red rock	Red/Gray	Soft	80	95	
Sand	Gray	Hard	95	115	
Red Rock	Red	Soft	115	135	
Sandy Shale	Gray	Soft	135	190	
Sand	Gray	Hard	190	210	
Sandy Shale	Gray	Soft	210	229	
Sand	Gray	Hard	220	244	
Red Rock and shale	Red/Gray	Soft	244	270	
Sandy Shale	Gray	Soft	270	290	
Red Rock and Shale	Red/Gray	Soft	290	304	
Sand	White	Hard	304	316	
Shale	Gray	Soft	316	340	
Sandy Shale	Gray	Soft	340	525	
Sand	White	Hard	525	555	
Sandy Shale	Gray	Soft	555	660	
Sand	Gray	Hard	660	665	
Sandy Shale	Gray	Soft	665	795	
Red Rock	Red	Soft	795	873	
Sandy Shale	Gray	Soft	873	895	
Sand	Gray	Hard	895	924	
Sandy Shale	Gray	Soft	924	1192	
Sand	White	Hard	1192	1199	
Sandy Shale	Gray	Soft	1199	1236	
Shale	Gray	Soft	1236	2365	
Sand	Gray	Hard	1265	1271	
Sandy Shale	Gray	Soft	1271	1335	
Sand	Gray	Medium	1335	1360	
Shale	Gray	Soft	1360	1390	
Sandy Shale	Gray	Medium	1390	1470	
Shale	Gray	Soft	1470	1538	
Sand	Gray	Hard	1538	1598	

50' 1/2" stream H2O

(Attach separate sheets as necessary)

over →

TERM Energy Corporation

Well Operator

General Manager

By: *Michael R. Kelle*

Date: Sept. 14, 1987

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 all, encountered in the drilling of a well."

MAY 13 1988

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all and salt water, coal, oil &
Shale	Gray	Soft	1598	1670	Intervals per G/R log: Big Injun 2044-2118 Weir 2286-2412 Berea 2478-2481 Gordon 2704-2711 Warren 3356-3400 Balltown 4118-4194 Riley 4522-4529 Benson 4933-4936 Leopold 5124-5128 Alexander 5189-5247
Sand	Gray	Medium	1670	1764	
Shale	Gray/Black	Soft	1764	1887	
Sand	Gray	Medium	1887	1935	
Little Lime	Gray	Hard	1935	1955	
Sand	Gray	Hard	1955	1970	
Big Lime	Gray	Hard	1970	2035	
Sandy Shale	Gray	Hard	2035	2045	
Big Injun	White	Hard	2045	2110	
Sandy Shale	Gray	Medium	2110	2160	
Sand	Gray	Hard	2160	2184	
Sandy Shale	Gray	Hard	2184	2655	
Sandy	Gray	Medium	2655	2685	
Shale	Gray	Soft	2685	3328	
Sand	Gray	Hard	3328	3392	
Sandy Shale	Gray	Medium	3392	4040	
Sandy	Gray	Hard	4040	4135	
Shale	Gray	Hard	4135	4387	
Sand	Light Brown	Soft	4387	4400	
Sandy Shale	Gray		4400	4482	
Sand	Brown		4482	4519	
Sandy Shale	Gray		4519	4537	
Sandy Shale	Lt Brown		4537	4560	
Sandy Shale	Gray		4560	4925	
Benson Sand	Brown		4925	4940	
Sandy Shale	Gray		4940	5000	
Sand	Gray		5000	5030	
Shale	Gray		5030	5045	
Sand	Lt Brown		5045	5100	
Shale	Gray		5100	5150	
Sand	Lt Brown		5150	5250	
Sandy Shale	Gray		5250	5290	
TOTAL DEPTH	5290'	Alex@TD			

RECEIVED
 MAY 09 1988
 DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

TERM Energy Corporation
 Well Operator

By: M. D. R. Kell
 Date: Sept. 14, 1987

919

1) Date: July 16, 19 87
 2) Operator's Well No. West 87-6-1D
 3) API Well No. 47 017 3576
 State County Permit



JUL 21 1987

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

4) WELL TYPE: A Oil / Gas XX / B (If "Gas", Production XX / Underground storage / Deep / Shallow XX /
 Elevation: 1195 / Watershed: Lower Run of Middle Fork of Hughes River
 District: South West 7 / County: Doddridge 017 / Quadrangle: Oxford 7.5' 525
 6) WELL OPERATOR TERM Energy Corp CODE: 49105 7) DESIGNATED AGENT Michael R. Kelley
 Address 110 N. Spring Street Harrisville, WV 26362
 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Mike Underwood / J&J Enterprises
 Address Route 2, Box 114 Post Office Box 48
 Salem, WV 26426 Buckhannon, WV 26201

10) PROPOSED WELL WORK: Drill XX / Drill deeper / Redrill XX / Stimulate XX /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) Alexander

11) GEOLOGICAL TARGET FORMATION, 5290 feet
 12) Estimated depth of completed well, 5290 feet
 13) Approximate trata depths: Fresh, 71, 105 feet; salt, NONE feet.
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes / No XX

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used			For drilling
Conductor	10 3/4		32		X	250	CTS	Kinds
Fresh water	7		20		X	1450	CTS	Sizes
Coal								Depths set
Intermediate								Perforations:
Production	4 1/2		11.6	X		5260	600 sks	Top
Tubing								Bottom
Liners								

XXXXXXXXXX

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3576 Date July 29 19 87

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires July 29, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

10480

Bond:	Agent:	Fee	Other
		220	
		8115	

NOTE: Keep one copy of this permit posted at the drilling location.

Director, Division of Oil and Gas
 File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

