

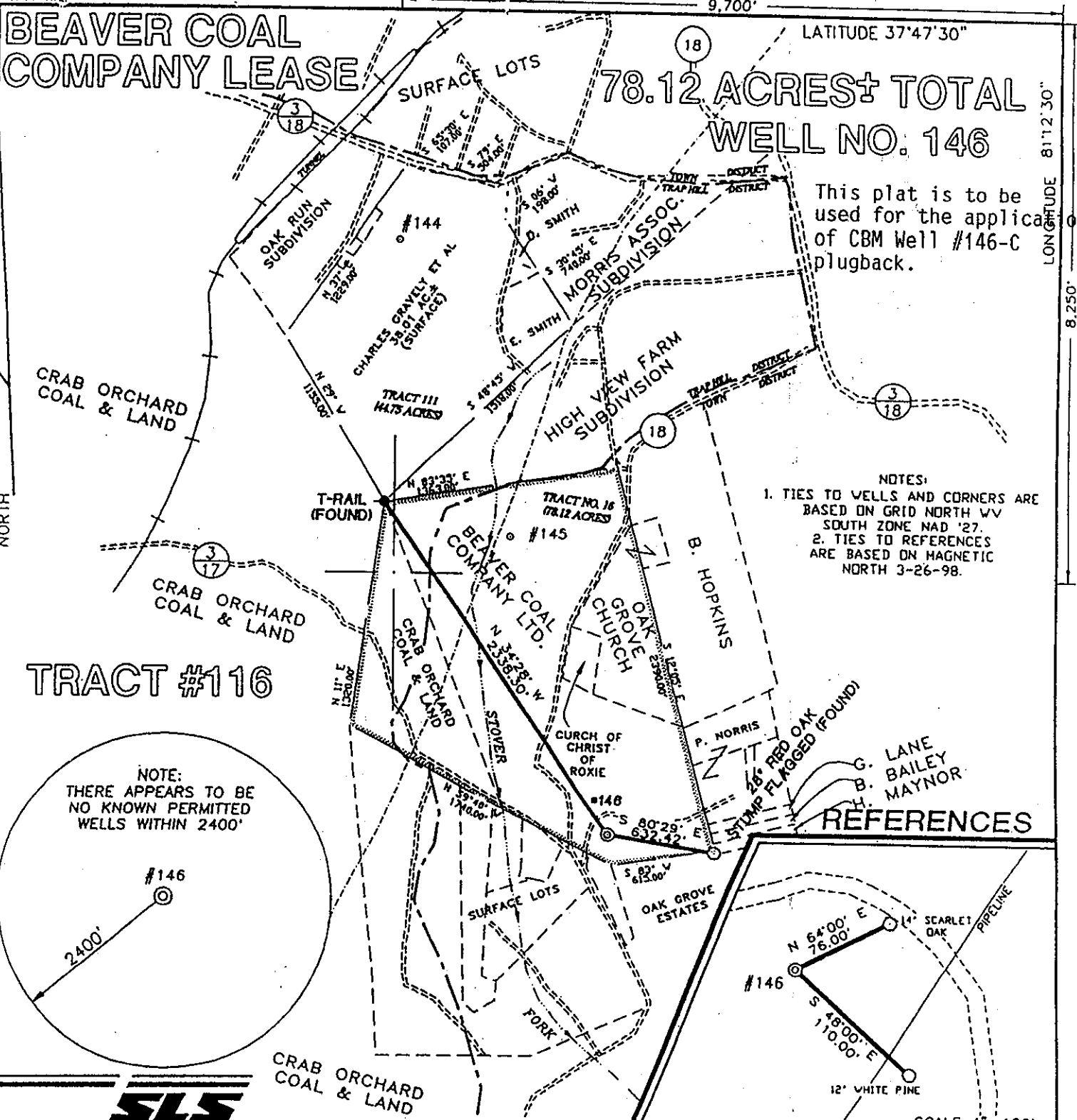
BEAVER COAL COMPANY LEASE

9,700'

LATITUDE 37°47'30"

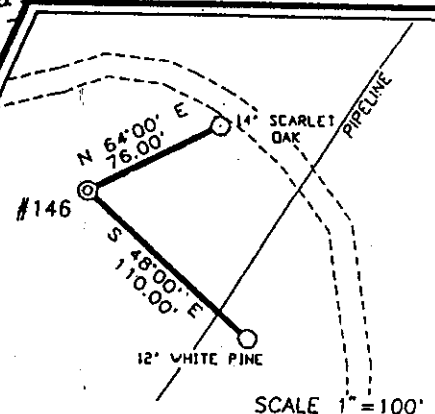
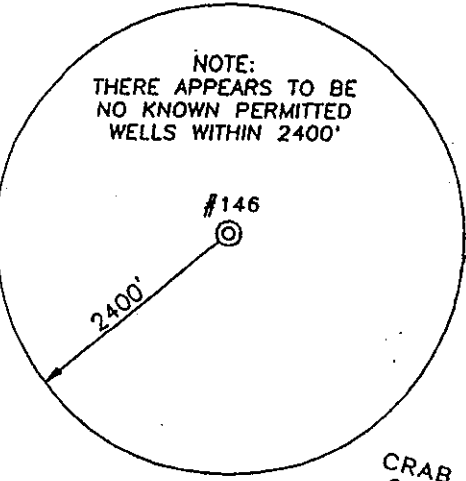
78.12 ACRES± TOTAL WELL NO. 146

This plat is to be used for the application of CBM Well #146-C plugback.



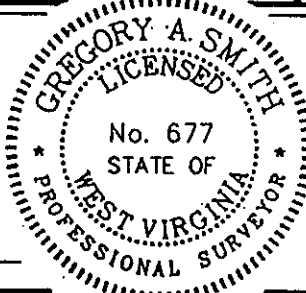
- NOTES:
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH W/V SOUTH ZONE NAD '27.
 2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 3-26-98.

TRACT #116



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 MARCH 30, 19 98
 OPERATORS WELL NO. BEAVER # 146
 API WELL NO. 47-81-01133P
 STATE COUNTY PERMIT
PLUGGING CANCELED

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3639P146 (61-63)
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 2489' 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 2462' WATERSHED STOVER FORK
 DISTRICT TOWN COUNTY RALEIGH QUADRANGLE BECKLEY 7.5'
 SURFACE OWNER BEAVER COAL COMPANY LTD. ACREAGE 52.17 TAXED
 ROYALTY OWNER BEAVER COAL COMPANY LTD. LEASE ACREAGE 78.12 (TRACT # 16)
 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 BIG LIME & WEIR
 ESTIMATED DEPTH 4500'

WELL OPERATOR ENERGY SEARCH, INC. DESIGNATED AGENT FRANK ROTUNDA
 ADDRESS 280 SANDERS W. BLD. SUITE 200 KNOXVILLE, TN 37922 ADDRESS 1613 GREENMONT HILLS DR. VIENNA, WV 26105

APR 18 2008

COUNTY NAME RALEIGH PERMIT 1133 CANCEL

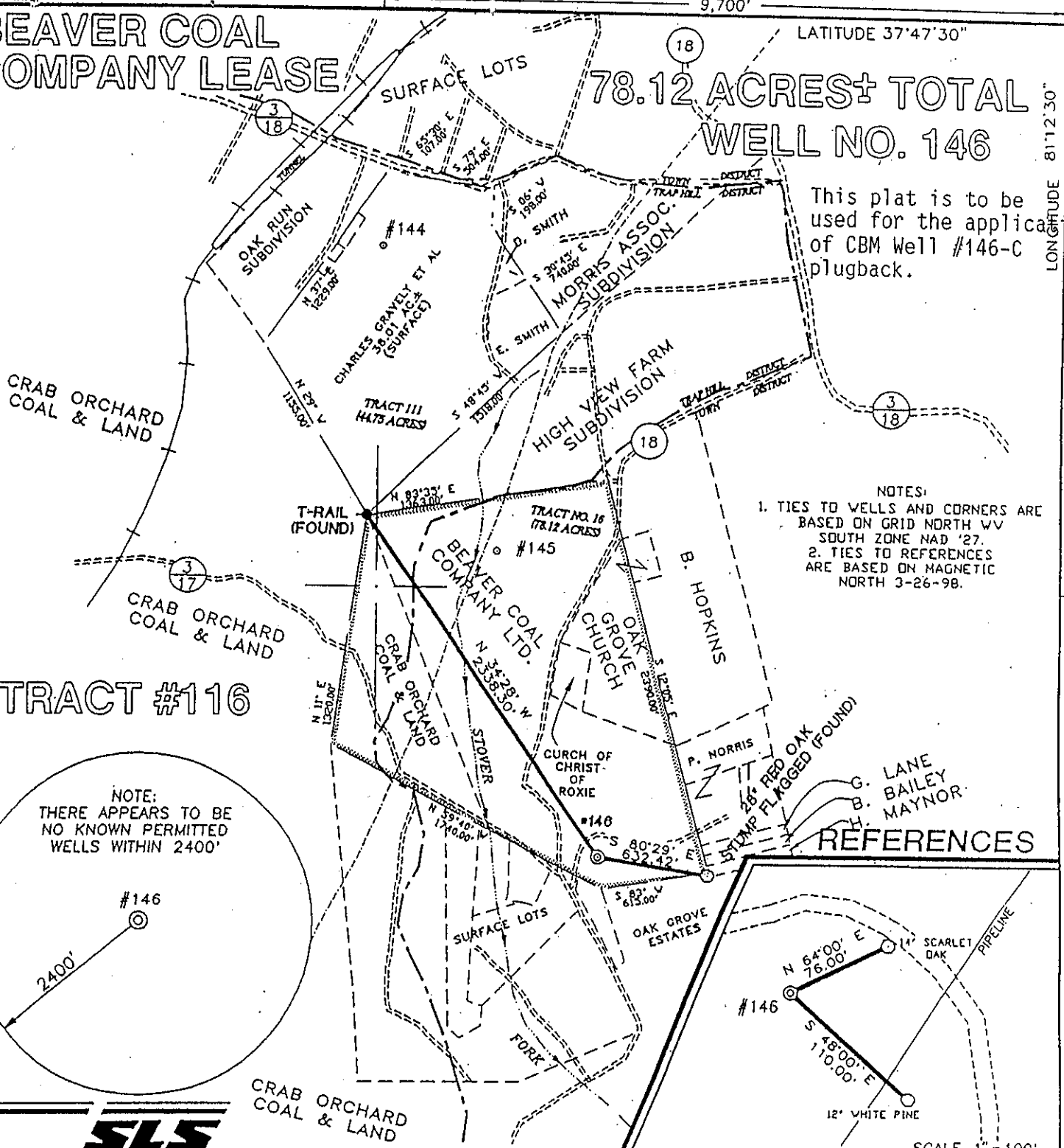
BEAVER COAL COMPANY LEASE

78.12 ACRES± TOTAL
WELL NO. 146

LATITUDE 37°47'30"

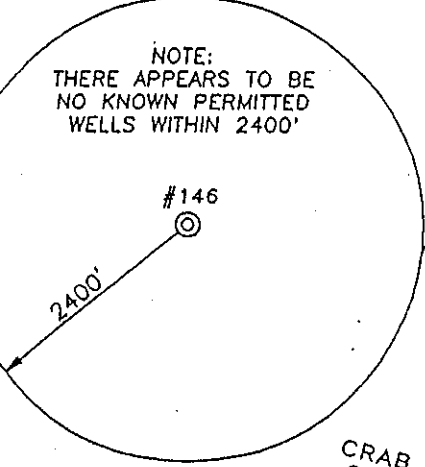
81°12'30" LONGITUDE

This plat is to be used for the application of CBM Well #146-C plugback.

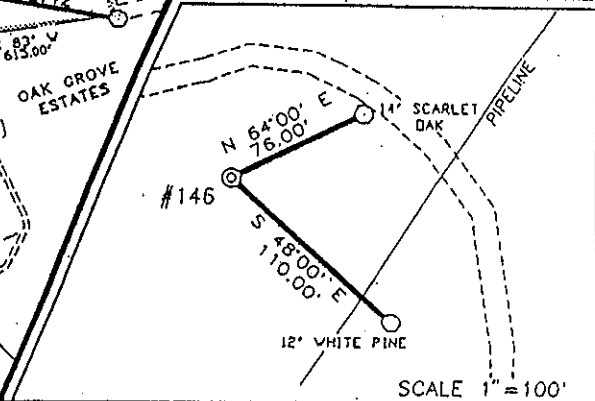


- NOTES:
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 2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 3-26-98.

TRACT #116



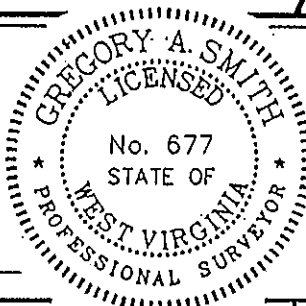
REFERENCES



SCALE 1" = 100'

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

Gregory A. Smith



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

DATE MARCH 30, 19 98
 OPERATORS WELL NO. BEAVER # 146
 API WELL NO. 47 - 81 - 01133P
 STATE COUNTY PERMIT

NUMERICAL DEGREE ACCURACY 1 / 200 FILE NO. 3639P146 (61-63)
 ELEVATION SOURCE JUNCTION OF ROADS ELEVATION 2489'
 SCALE 1" = 800'

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



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

LOCATION: ELEVATION 2462' WATERSHED STOVER FORK
 DISTRICT TOWN COUNTY RALEIGH QUADRANGLE BECKLEY 7.5'

SURFACE OWNER BEAVER COAL COMPANY LTD. ACREAGE 52.17 TAXED
 LEASE OWNER BEAVER COAL COMPANY LTD. LEASE ACREAGE 78.12 (TRACT # 16)
 PROPOSED WORK: LEASE NO. _____
 CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD
 PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION BIG LIME & WEIR
 ESTIMATED DEPTH 4500'

OPERATOR ENERGY SEARCH, INC. DESIGNATED AGENT FRANK ROTUNDA
 ADDRESS 280 SANDERS W. BLVD. SUITE 200 KNOXVILLE, TN 37922 ADDRESS 1613 GREENMONT HILLS DR. VIENNA, WV 26105

FEB 18 2005

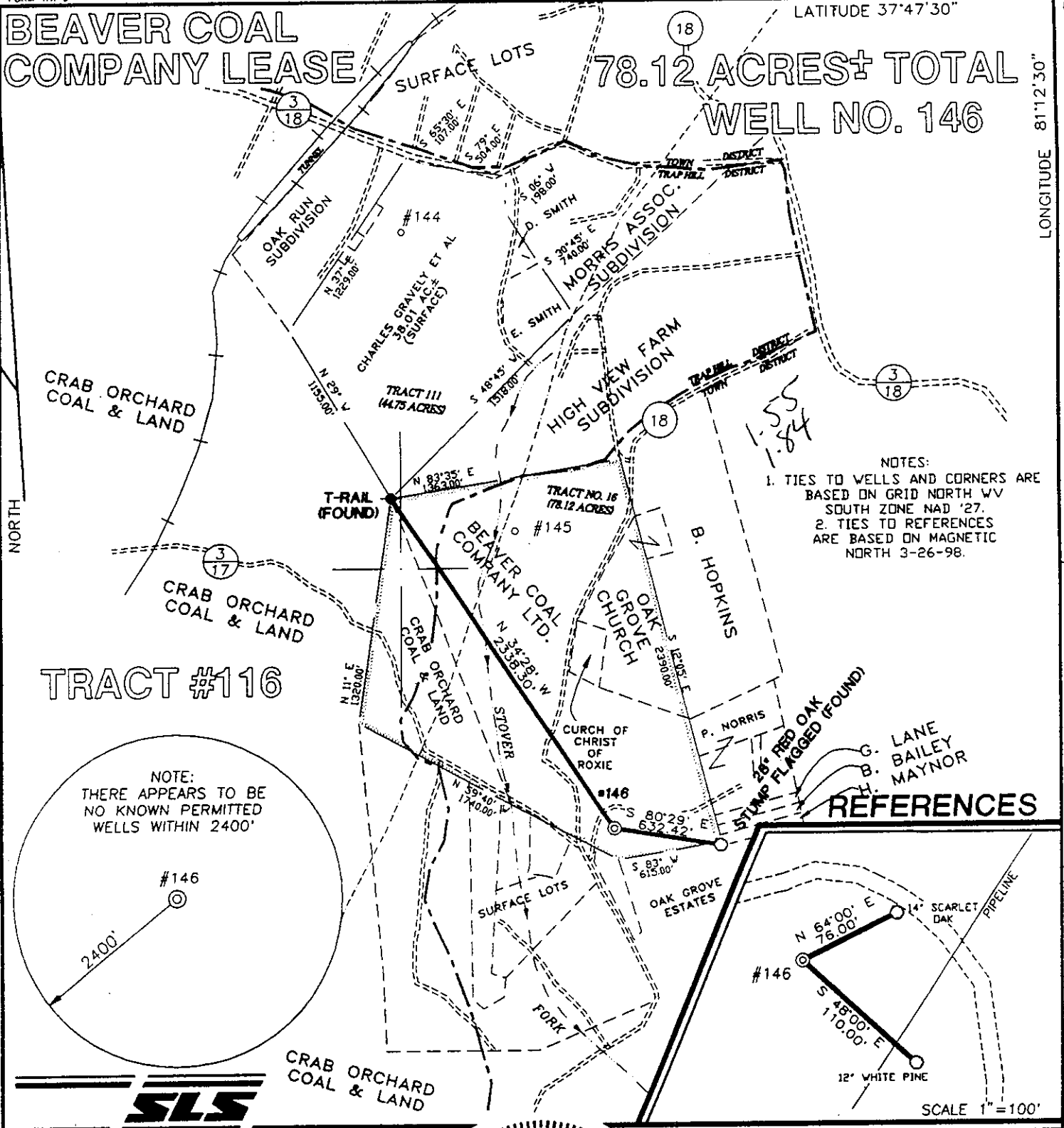
COUNTY NAME RALEIGH PERMIT 1133P

BEAVER COAL COMPANY LEASE

78.12 ACRES± TOTAL WELL NO. 146

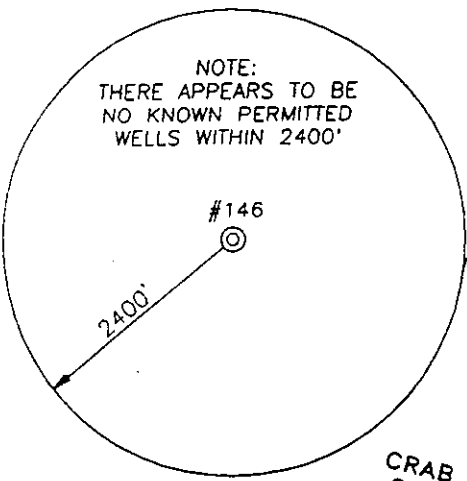
NORTH

LONGITUDE 82°11'18"

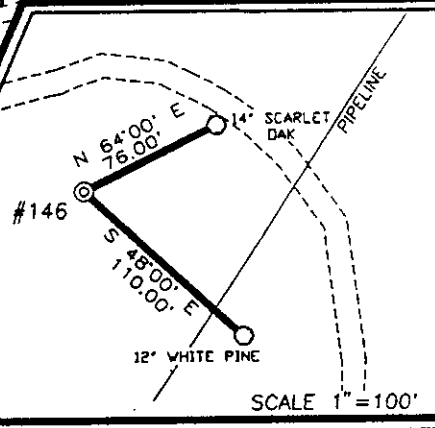


NOTES:
 1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH WV SOUTH ZONE NAD '27.
 2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 3-26-98.

TRACT #116



REFERENCES

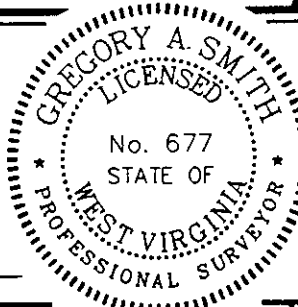


SCALE 1" = 100'



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P.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE MARCH 30, 19 98
 OPERATORS WELL NO. BEAVER # 146
 API WELL NO. 47-81-01133
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3639P146 (61-63)
 SCALE 1" = 800'
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 2489'

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 2462' WATERSHED STOVER FORK
 DISTRICT TOWN COUNTY RALEIGH QUADRANGLE BECKLEY 7.5'

SURFACE OWNER BEAVER COAL COMPANY LTD. ACREAGE 52.17 TAXED
 ROYALTY OWNER BEAVER COAL COMPANY LTD. LEASE ACREAGE 78.12 (TRACT # 16)

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 BIG LIME & WEIR
 ESTIMATED DEPTH 4500'

WELL OPERATOR ENERGY SEARCH, INC. DESIGNATED AGENT FRANK ROTUNDA
 ADDRESS 280 SANDERS W. BLD. SUITE 200 KNOXVILLE, TN 37922 ADDRESS 1613 GREENMONT HILLS DR. VIENNA, WV 26105

6-6 360

COUNTY NAME RALEIGH PERMIT 1133-6

MAY 11 1998

WR-35

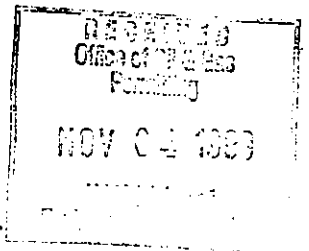
22-Apr-99
API # 47- 81-01133 C-W

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Farm name: BEAVER COAL CO. Operator Well No.: 146-C

LOCATION: Elevation: 2,462.00 Quadrangle: BECKLEY

District: TOWN County: RALEIGH
Latitude: 8250 Feet South of 37 Deg. 47Min. 30 Sec.
Longitude 9700 Feet West of 81 Deg. 12 Min. 30 Sec.



Company: ENERGY SEARCH, INC.
280 FT. SANDERS, W. BLVD., STE. 200
KNOXVILLE, TN 37922-0000

Agent: FRANK R. ROTUNDA

Inspector: RODNEY DILLON
Permit Issued: 04/27/98
Well work Commenced: 05/28/99
Well work Completed: 05/28/99
Verbal Plugging
Permission granted on: _____
Rotary XX Cable _____ Rig _____
Total Depth (feet) PBTD (CIBP) 1350'
Fresh water depths (ft) 195' 659'
Salt water depths (ft) _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
12 3/4"	20'	20'	
9 5/8"	419'	419'	163
7"	1010'	1010'	275
4 1/2"	1957'	1957'	352
2 3/8"		New 1139'	

Is coal being mined in area (Y/N)? N
Coal Depths (ft): open mine @ 350'

OPEN FLOW DATA

Producing formation Poca #3 Pay zone depth (ft) 1038-1057'
 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 25 psig (surface pressure) after 24 Hours

Second producing formation Poca #2 Pay zone depth (ft) 1092-1141'
 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,

For: ENERGY SEARCH, INC.
By: JOHN M. JOHNSTON
Date: 07/30/99

Nov. 15 1999

RAI 1133 C-W

Formation Tops

Elevation	2462'
Poca #3	1038-1057'
Poca #2A	1087-1089'
Poca #2B	1139-1141'

WR-35

05-May-98

API # 47-881-01133
 Office of Oil & Gas
 Permitting
 SEP 18 1998
 WV Office of
 Environmental Protection

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

Well Operator's Report of Well Work

Farm name: Beaver Coal Co. Operator Well No.: Beaver Coal #146

LOCATION: Elevation: 2,462.00 Quadrangle: BECKLEY

District: TOWN County: RALEIGH
 Latitude: 8250 Feet South of 37 Deg. 47Min. 30 Sec.
 Longitude 9700 Feet West of 81 Deg. 12 Min. 30 Sec.

Company: ENERGY SEARCH, INC.
 280 FT. SANDERS, W. BLVD., STE. 200
 KNOXVILLE, TN 37922-0000

Agent: FRANK R. ROTUNDA

Inspector: RODNEY DILLON
 Permit Issued: 05/06/98
 Well work Commenced: 6/23/98
 Well work Completed: 8/20/98
 Verbal Plugging
 Permission granted on: N/A
 Rotary xxxx Cable _____ Rig _____
 Total Depth (feet) 2732'
 Fresh water depths (ft) 195' - 659'

Salt water depths (ft) no record

Is coal being mined in area (Y/N)?
 Coal Depths (ft): open mine @ 350'

Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
12-3/4	20'	20'	
9-5/8	419'	419'	163
7"	1010'	1010'	275
4-1/2	1957'	1957'	352
2-3/8		1704'	

OPEN FLOW DATA

Producing formation Ravencliff Pay zone depth (ft) See attach
 Gas: Initial open flow show MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 84 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure 140 psig (surface pressure) after 24 Hours

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.

Frank R. Rotunda
 For: ENERGY SEARCH, INC.

By: Frank R. Rotunda - VP Land - Agent
 Date: 9/14/98

RAL 1133

SEP 21 1998

Beaver Coal #146

API: 47-081-01133

Ravencliff: 1708'-12' (4 shots), 1722'-28' (10), 1742'-46' (6 shots) - set CIBP @ 1904'.
Breakdown with 250 gal 15% HCl, @ 643 psi; ISIP 397 psi; pump 250 gal HCl & drop
30 - 1.3 sg. Balls to ballout @ 3600 psi. 75Q Foam Frac - 30 BPM; 35,000 # 20/40
sand; 355,000 SCF N2; 160 bbl. Total fluid; Max TP 2770 psi; ATP 2650 psi; Final TP
2700 psi; ISIP 2275 psi; 15 min. SIP 1920 psi.

