

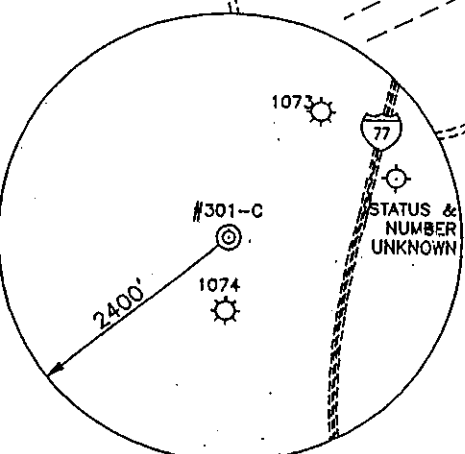
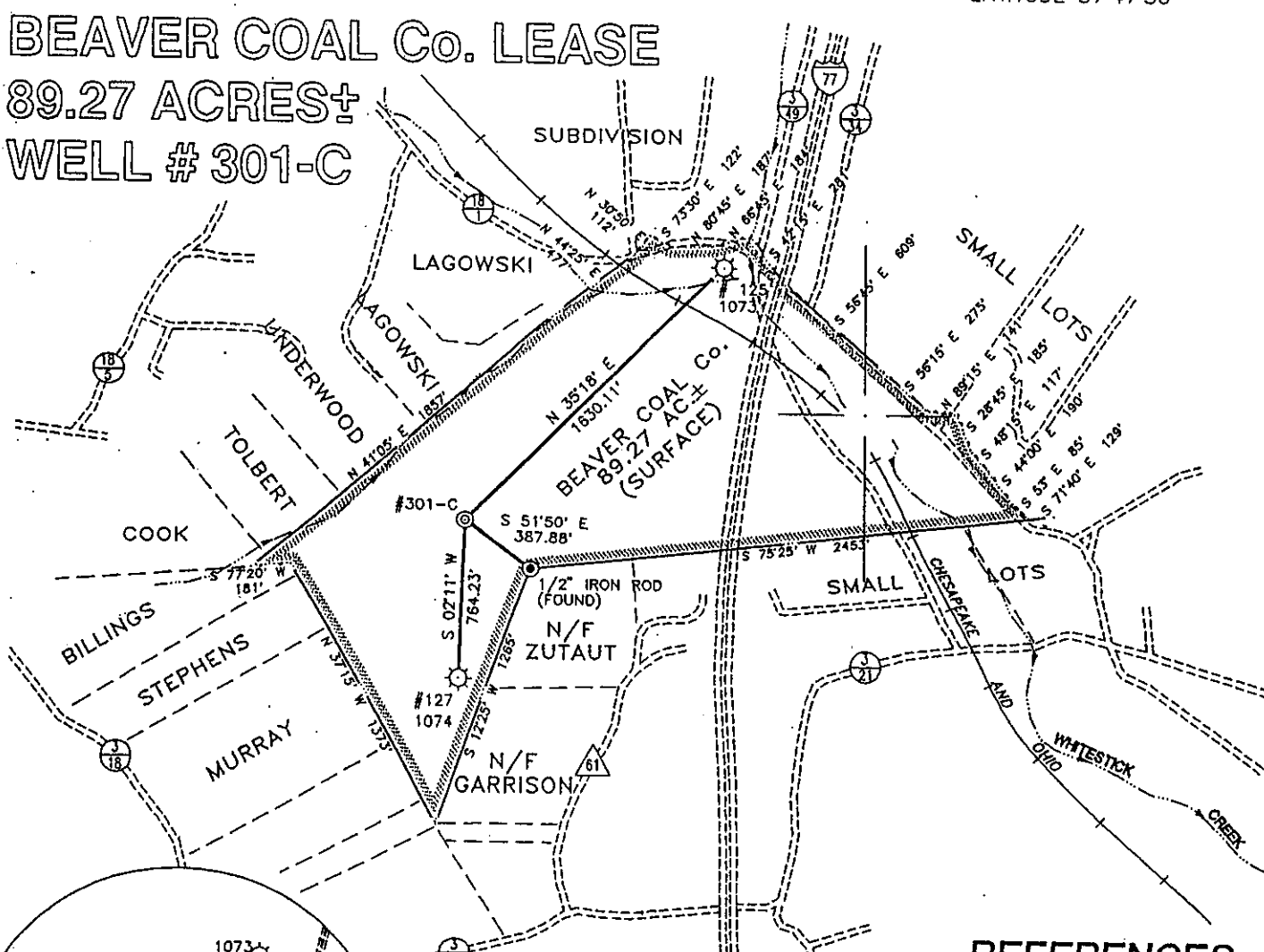
BEAVER COAL Co. LEASE

89.27 ACRES±

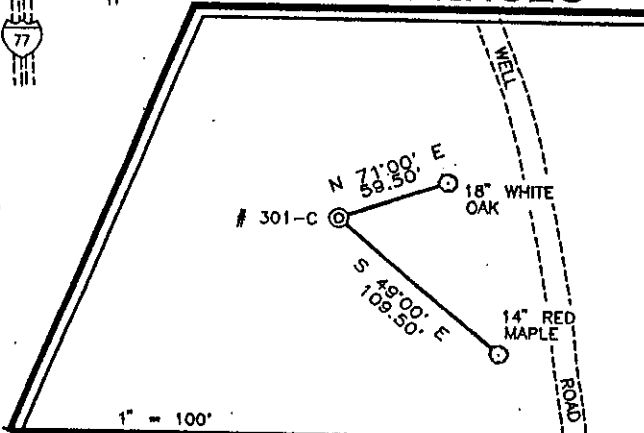
WELL # 301-C

NORTH

LONGITUDE 81°12'30"
5,190'
LAT. 37°46'38.4"



REFERENCES



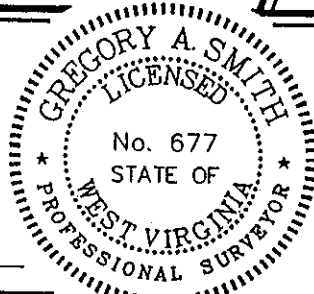
NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
2. SURFACE OWNERS AND ADJOINER INFORMATION OBTAINED FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RALEIGH COUNTY IN MARCH 1997.
3. WELL LAT./LONG. ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).
4. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 9/4/98.



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 SEPTEMBER 10, 19 98

OPERATORS WELL NO. BEAVER # 301-C

API WELL NO. 47 - 81 - 01162 P
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3639301C (69-32)
PROVEN SOURCE OF ELEVATION BENCH MARK ELEVATION 2344' SCALE 1" = 800'

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



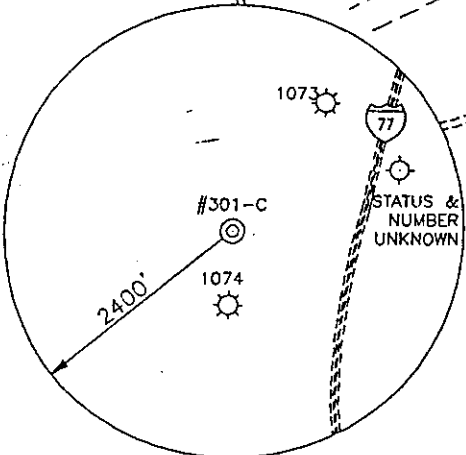
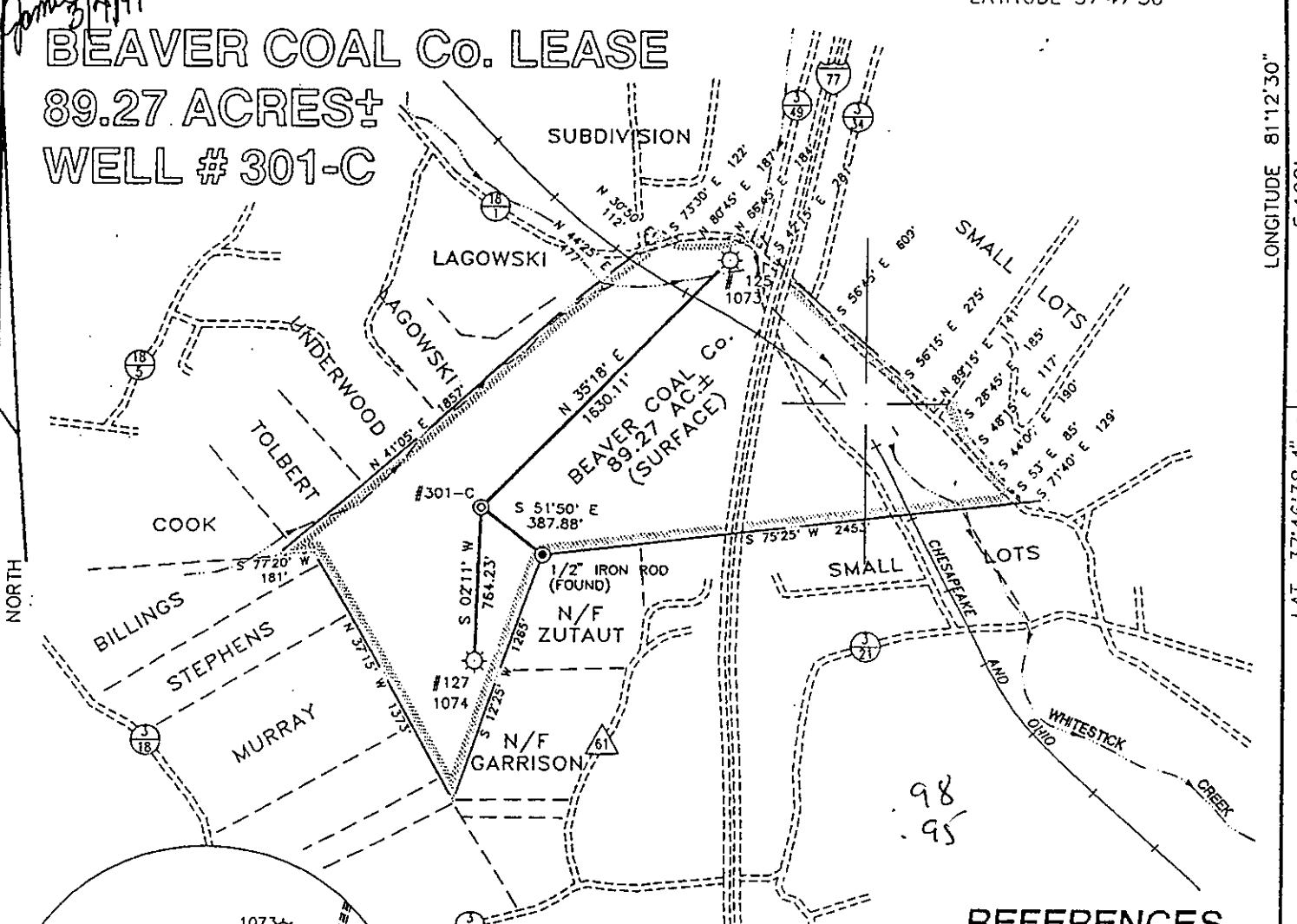
WELL TYPE : OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW
LOCATION : ELEVATION 2431' WATERSHED TRIBUTARY OF WHITESTICK CREEK
DISTRICT TOWN COUNTY RALEIGH QUADRANGLE BECKLEY 7.5'
SURFACE OWNER BEAVER COAL COMPANY LIMITED ACREAGE 89.27
ROYALTY OWNER BEAVER COAL COMPANY LIMITED LEASE ACREAGE 89.27
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 POCAHONTAS #3
ESTIMATED DEPTH 1300'

WELL OPERATOR ENERGY SEARCH, Inc. DESIGNATED AGENT FRANK ROTUNDA
ADDRESS 280 SANDERS W. Blvd. SUITE 200 KNOXVILLE, TENNESSEE 37922 ADDRESS 1613 GREENMONT HILLS DRIVE VIENNA, WV 26105

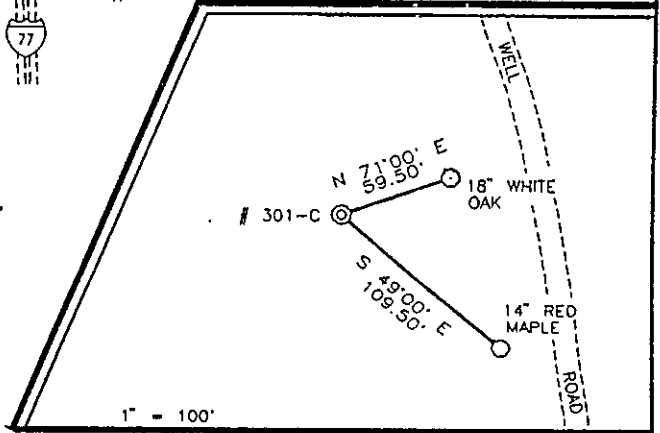
COUNTY NAME RALEIGH
PERMIT 1162 P

BEAVER COAL Co. LEASE 89.27 ACRES± WELL # 301-C

Janice 3/1/99



REFERENCES



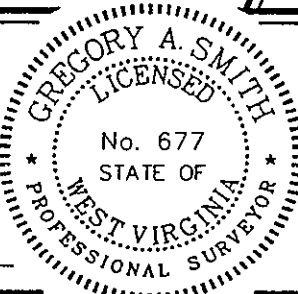
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P.S. Gregory A. Smith
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE SEPTEMBER 10, 19 98
 OPERATORS WELL NO. BEAVER # 301-C
 API WELL NO. 47-081 01162-C
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3639301C (69-32)
 PROVEN SOURCE OF ELEVATION BENCH MARK ELEVATION 2344' 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 2431' WATERSHED TRIBUTARY OF WHITESTICK CREEK
 DISTRICT TOWN COUNTY RALEIGH QUADRANGLE BECKLEY 7.5'

SURFACE OWNER BEAVER COAL COMPANY LIMITED ACREAGE 89.27
 ROYALTY OWNER BEAVER COAL COMPANY LIMITED LEASE ACREAGE 89.27

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 POCAHONTAS #3
 ESTIMATED DEPTH 1300'

WELL OPERATOR ENERGY SEARCH, Inc. DESIGNATED AGENT FRANK ROTUNDA
 ADDRESS 280 SANDERS W. Blvd. SUITE 200 KNOXVILLE, TENNESSEE 37922 ADDRESS 1613 GREENMONT HILLS DRIVE VIENNA, WV 26105

MAR 16 1999

6-6 360

COUNTY NAME RALEIGH
PERMIT 1162-C

WR-35

08-Mar-99
API # 47- 81-01162 C

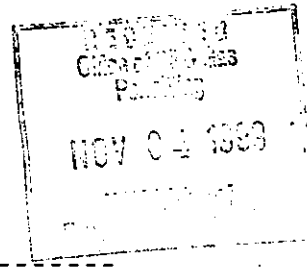
AV

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.: B C 301-C

LOCATION: Elevation: 2,431.00 Quadrangle: BECKLEY

District: TOWN County: RALEIGH
Latitude: 5190 Feet South of 37 Deg. 47Min. 30 Sec.
Longitude 5020 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: 03/09/99
Well work Commenced: 07/30/99
Well work Completed: 10/09/99
Verbal Plugging _____
Permission granted on: _____
Rotary XX Cable _____ Rig _____
Total Depth (feet) 1226'
Fresh water depths (ft) _____
Salt water depths (ft) _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13 3/8"	20'	20'	
7"	528'	528'	240 SXS
4 1/2"	1124'	1124'	110 SXS
2 3/8"		1052'	

Is coal being mined in area (Y/N)?
Coal Depths (ft): 297'-302', 816'-819', 999'-1006'

OPEN FLOW DATA

Producing formation POCAHONTAS #3COAL Pay zone depth (ft) 990'-1035'
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

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.

For: ENERGY SEARCH, INC.
By: JOHN M. JOHNSTON EXECUTIVE VICE PRESIDENT
Date: NOVEMBER 01, 1999

John M. Johnston

Nov
NOV 01 1999

RAL 1162 C

B	2434'
ECKLEY	659'-664'
IRE CREEK	816'-818'
OCA #3	989'-1005'
OCA #2	1034'-1035'
D	1226'