

TIM SMITH LEASE 63.5 OF 237 AC. ± WELL # 1 47-107-1631

T. SMITH

C.A. TOWNSEND
ET UX

LATITUDE 39°07'30"

LONG. 81°40'34.9" 2.710'

J. STARKEY
ET UX

LONGITUDE 81°40'00"
LAT. 39°07'12.6"

NORTH

TIMOTHY J. SMITH
63.5 ACRES ±
(SURFACE)

33
51

TIM SMITH # 1
47-107-1631

0.104 AC. ±
OUTSALE
TO A. PHILLIPS

R. BUCK, Jr.
ET UX

A. PHILLIPS

1/2" REBAR
(FOUND)

1/2" REBAR
(FOUND)

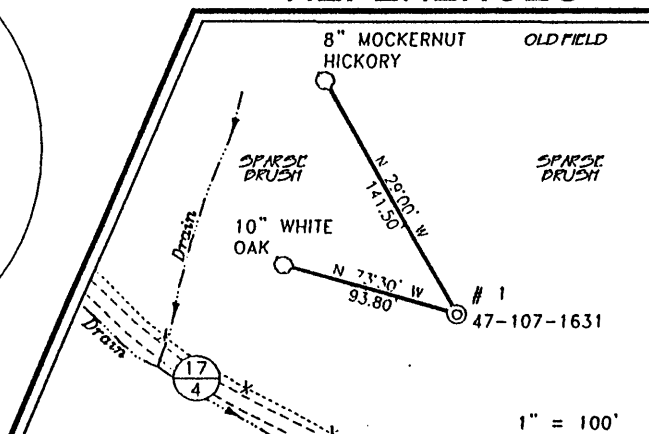
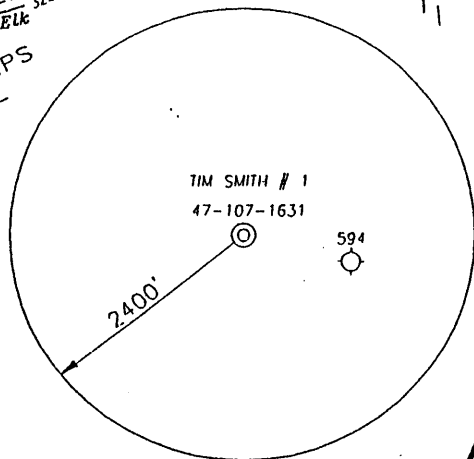
A. PHILLIPS
ET AL

A. PHILLIPS

REFERENCES

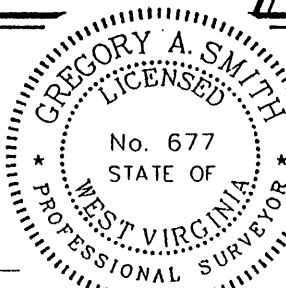
NOTES ON SURVEY

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 DEED BOOK 975 AT PAGE 762.
3. SURFACE OWNERS AND ADJOINER INFORMATION OBTAINED FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF WOOD COUNTY IN OCTOBER, 1998.
4. WELL LAT./LONG. ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).
5. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 10/30/98.
6. PLAT WAS ORIGINALLY PERMITTED FOR API NO. 47-107-1631 AND IS BEING UPDATED FOR A PARTIAL PLUG.



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 NOVEMBER 29, 20 01

OPERATORS WELL NO. TIM SMITH # 1

API WELL NO. 47-107-1631F

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 4104P1PP (73-1)
PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 655' SCALE 1" = 400'

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 701' WATERSHED ELK RUN OF SOUTH FORK LEE CREEK

DISTRICT HARRIS COUNTY WOOD QUADRANGLE POND CREEK 7.5'

SURFACE OWNER TIMOTHY J. SMITH ACREAGE 63.5

ROYALTY OWNER TIMOTHY J. SMITH LEASE ACREAGE 63.5 OF 237

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) PARTIAL PLUG TARGET FORMATION LOCKPORT

SETTING PLUG AT 5250' FRAC DEVONIAN BROWN SHALE AT 3729' ESTIMATED DEPTH 5250'

WELL OPERATOR NORTH COAST ENERGY EASTERN, INC. DESIGNATED AGENT TOM LIBERATORE

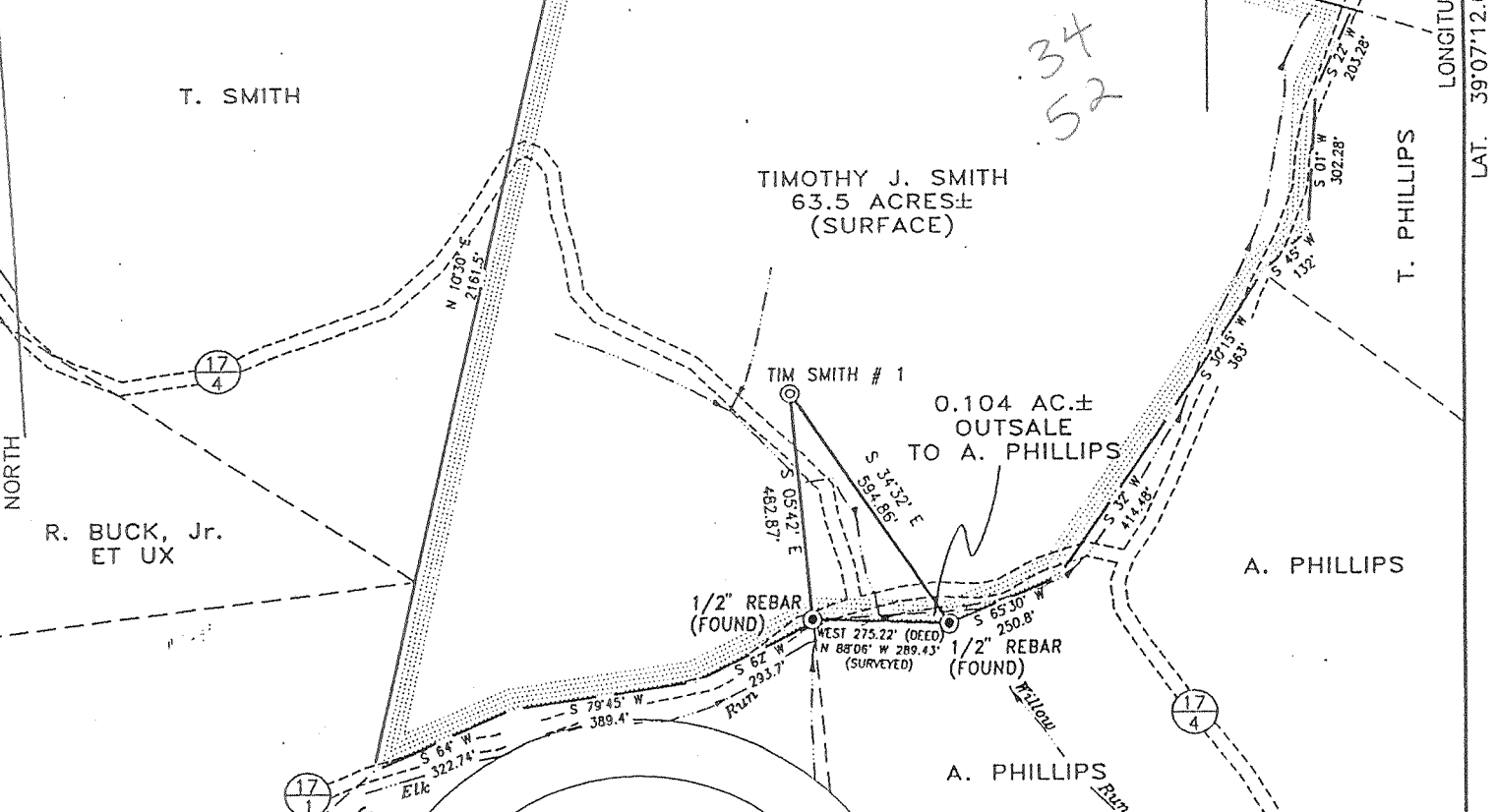
ADDRESS P.O. BOX 8 RAVENSWOOD, WV 26164 ADDRESS P.O. BOX 8 RAVENSWOOD, WV 26164

COUNTY NAME WOOD
PERMIT 1631F

(NEW ENGLAND 296) 3-6

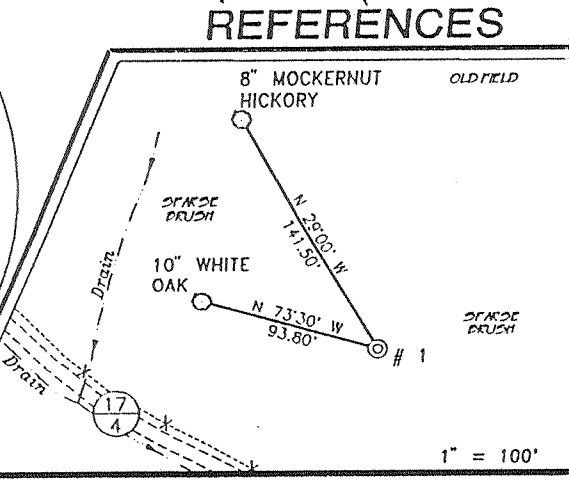
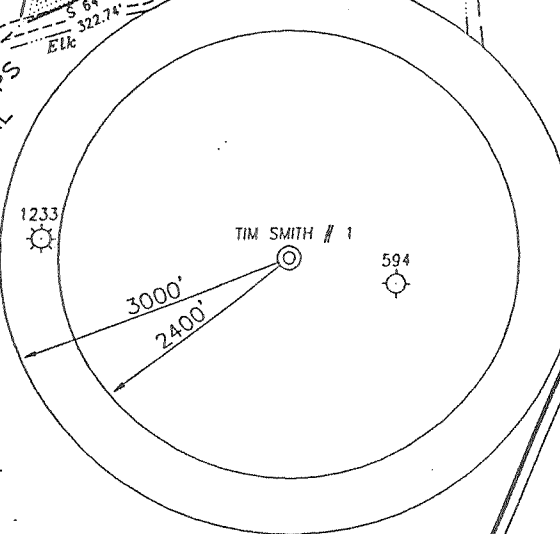
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TIM SMITH LEASE 63.5 OF 237 ACRES± WELL # 1



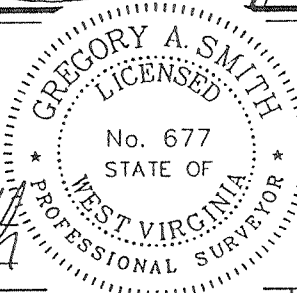
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P.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE NOVEMBER 2, 19 98
 OPERATORS WELL NO. TIM SMITH # 1
 API WELL NO. 47 - 107 - 01631
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 4104P1 (73-1)
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 655' SCALE 1" = 400'

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 701' WATERSHED ELK RUN OF SOUTH FORK LEE CREEK
 DISTRICT HARRIS COUNTY WOOD QUADRANGLE POND CREEK 7.5'

SURFACE OWNER TIMOTHY J. SMITH ACREAGE 63.5
 ROYALTY OWNER TIMOTHY J. SMITH LEASE ACREAGE 63.5 OF 237
 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 _____
 ESTIMATED DEPTH _____

WELL OPERATOR PEAKE ENERGY, INC. DESIGNATED AGENT TOM LIBERATORE
 ADDRESS P.O. BOX 8 RAVENSWOOD, WV 26164 ADDRESS P.O. BOX 8 RAVENSWOOD, WV 26164

DEEP WELL

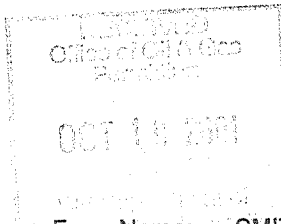
FEB 09 2001

3-6 296

WOOD COUNTY NAME PERMIT 1631

WR-35

06-Feb-01
API# 47-107-01631



STATE OF WEST VIRGINIA
Division of Environmental Protection
Office of Oil and Gas

Handwritten initials

WELL OPERATOR'S REPORT of WELL WORK

Farm Name: SMITH, TIMOTHY, J. Operator Well No.: PKN-887

Location: Elevation: 701 7.5' Quad.: POND CREEK

District: HARRIS County: WOOD
Latitude: 1760 Feet South of 39 Deg. 07 Min. 30 Sec.
Longitude: 2710 Feet West of 81 Deg. 40 Min. 00 Sec.

Company: NORTH COAST ENERGY EASTERN, INC.
P.O. BOX 8
RAVENSWOOD, WV 26164

Agent: THOMAS S. LIBERATORE

Inspector: LARRY PARRISH

Permit Issued: 02/06/01

Well Work Commenced (spud): 03/29/01

Well Work Completed (T.D.): 04/10/01

Verbal Plugging

Permission Granted on:

Rotary Cable Rig

Total Depth (feet): 5626

Fresh Water Depths (feet):
105 FT.

Salt Water Depths (feet):
1500 FT. ?

Is coal being mined in area? Yes No

Coal Depths (ft): None present

Casing & Tubing (Size-O.D.)	Used in Drilling (feet)	Left in Well (feet)	Cement Type (sacks)
11 5/8"	260'	260'	167 SX Class A Cement
8 5/8"	1695'	1695'	410 SX Class A Cement
4 1/2"		5586'	185 SX 65/35 POZ Cement

OPEN FLOW DATA

Producing formation LOCKPORT DOLOMITE Pay zone depth (ft) 5304-5308

Gas: Initial open flow EST. 6.0 MCF/D Final open flow 0 BBL/D

Final open flow * MCF/D Final open flow 0 BBL/D

Time of open flow between initial and final tests NA Hours

Static rock pressure 1600 psig (surface pressure) after 17 HOURS

*NOTE: Pay zone resulted in Salt Water, will Plug-back to Brown Shale

2nd producing form. 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 _____ Days

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 GEOLOGIC RECORD OF ALL FORMATIONS, INCLUDING COAL, ENCOUNTERED BY THE WELLBORE.

For:

North Coast Energy Eastern, Inc.

By: David L. Cox, Petro. Geologist

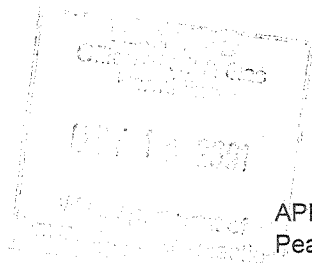
Date: 17-Oct-01

OCT 26 2001

Deep well

WOOD 1631

WR-35
(Reverse)



API / Permit #:
Peake Well #:
Elevation:

47-107-01631
PKN-887
701GL 711KB

DETAILS OF PERFORATING, FRACTURING, OR PHYSICAL CHANGE, ETC.

PERFORATED THE LOCKPORT DOLOMITE FROM 5305 TO 5308 USING 12 HOLES.
FRAC'D THE LOCKPORT WITH 19 BBL ACID & 37 BBL KCI WATER
ATP = 2490 # BDP = 3219# ISIP = 2500#

TREATMENT RESULTED IN GAS & SALT WATER. PLANS ARE TO PLUG-BACK TO
DEVONIAN BROWN SHALE INTERVAL

WELL LOG

ROCK TYPE OR FORMATION NAME	TOP	BOTTOM	REMARKS
(all measurements taken from KB)			
SHALE	0	80	
SAND	80	110	
SHALE	110	540	
PITTSBURGH (?) SAND	540	600	
SHALE W/ SAND STRINGERS	600	1010	
SAND W/ SHALE	1010	1370	
SHALE W/ SAND STRINGERS	1370	1452	
SALT SANDS	1452	1521	
BIG LIME (GREENBRIER)	ABSENT		
BIG INJUN SAND?	1584	1612	
SHALE	1612	2025	
COFFEE SHALE (SUNBURY)	2025	2050	
BEREA SAND	2050	2053	
SHALE	2053	3196	
BROWN SHALE (LOWER HURON)	3196	3729	s/gas @ 3464'
SHALE (JAVA)	3729	4114	
RHINESTREET SHALE	4114	4303	
ONONDAGA LIMESTONE (Big Lime of OH)	4303	4400	
ORISKANY SANDSTONE	4400	4432	s/gas & water
HELDERBERG LIMESTONE	4432	4630	
"SALINA" DOLOMITE	4630	5146	
NEWBURG SAND	5146	5154	tight & dry
DOLOMITE & SHALE	5154	5256	
LOCKPORT DOLOMITE	5256	5472	gas @ 5306'
BIG SIX SAND (KEEFER)	5472	5505	
ROSE HILL SHALE	5505	5626	
LOGGERS' TD	5626		
DRILLERS' TD	5639		

STATE OF WEST VIRGINIA
Division of Environmental Protection
Office of Oil and Gas

WELL OPERATOR'S REPORT of WELL WORK

Farm Name: SMITH, TIMOTHY J. Operator Well No.: PKN 887F
 Location: Elevation: 701 7.5' Quad.: POND CREEK
 District: HARRIS County: WOOD
 Latitude: 1760 Feet South of 39 Deg. 07 Min. 30 Sec.
 Longitude: 2710 Feet West of 81 Deg. 40 Min. 00 Sec.

Company: **North Coast Energy Eastern, Inc.**
 P.O. Box 8
 Ravenswood, West Virginia 26164

Agent: David L. Cox

Inspector: LARRY PARRISH

Permit Issued: 12/04/01

Well Work Commenced (spud): 12/07/01

Well Work Completed (T.D.): 02/22/02

Verbal Plugging

Permission Granted on:

Rotary X Cable _____ Rig

Total Depth (feet): _____

Fresh Water Depths (feet): _____

See Original WR-35

Salt Water Depths (feet): _____

See Original WR-35

Is coal being mined in area? No

Coal Depths (ft): See Original WR-35

Casing & Tubing (Size-O.D.)	Used in Drilling (feet)	Left in Well (feet)	Cement Type (sacks)
11 5/8			
8 5/8			
4 1/2			

OPEN FLOW DATA

Producing formation BROWN SHALE Pay zone depth (ft) 3251-3696
 Gas: Initial open flow * MCF/D Oil: Initial open flow -- BBL/D
 Final open flow 350 MCF/D Final open flow 0 BBL/D
 Time of open flow between initial and final tests 22 Hours
 Static rock pressure 640 psig (surface pressure) after 72 Hours

SEP 17 2004

2nd producing form. _____ 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 * Days

*OPEN-FLOWS & ROCK PRESSURES ARE COMBINED

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For: David L. Cox
NORTH COAST ENERGY Eastern, Inc.
 By: David L. Cox, Manager of Geology
 Date: 3-Aug-2004

RECEIVED
 Office of Oil & Gas
 Office of Chief
 AUG 04 2004
 WV Department of
 Environmental Protection

WOOD 1631 F

WR-35
(Reverse)

API / Permit #:
North Coast Well #:
Elevation:

47-107-01631F
PKN 887F
701GL 711KB

DETAILS OF PERFORATING, FRACTURING, OR PHYSICAL CHANGE, ETC.

SET SOLID MECHANICAL BRIDGE PLUG AT 3866.

PERFORATED THE BROWN SHALE FROM 3251 TO 3696 USING 40 HOLES.

FRAC'D THE BROWN SHALE WITH 61,500# SAND, 507,000SCF OF NITROGEN,
147 BBL GELLED FLUID, AND 500 GAL 15% HCL.

WELL LOG

ROCK TYPE OR FORMATION NAME	TOP	BOTTOM	REMARKS
SHALE	0	80	
SAND	80	110	
SHALE	110	540	
PITTSBURGH (?) SAND	540	600	
SHALE W/ SAND STRINGERS	600	1010	
SAND W/SHALE	1010	1370	
SHALE W/ SAND STRINGERS	1370	1452	
SALT SANDS	1452	1521	
BIG LIME (GREENBRIER)	ABSENT		
BIG INJUN SAND	1584	1612	
SHALE	1612	2025	
COFFEE SHALE (SUNBURY)	2025	2050	
BEREA SAND	2050	2053	
SHALE	2053	3196	
BROWN SHALE (LOWER HURON)	3196	3729	s/gas @ 3464
SHALE (JAVA)	3729	4114	
RHINESTREET SHALE	4114	4303	
ONONDAGA LIMESTONE (Big Lime of OH)	4303	4400	
ORISKANY SANDSTONE	4400	4432	s/gas & water
HELDERBERG LIMESTONE	4432	4630	
"SALINA" DOLOMITE	4630	5146	
NEWBURG SAND	5146	5154	tight & dry
DOLOMITE & SHALE	5154	5256	
LOCKPORT DOLOMITE	5256	5472	gas @ 5306
BIG SIX SAND (KEEFER)	5472	5505	
ROSE HILL SHALE	5505	5626	
TOTAL DEPTH (LOGGERS')	5626		
TOTAL DEPTH (DRILLERS')	5639		

SEP 17 2004