

LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-842-2018

9080'

LATITUDE 37°52' 30"

0522

LONGITUDE 81°35' 00"

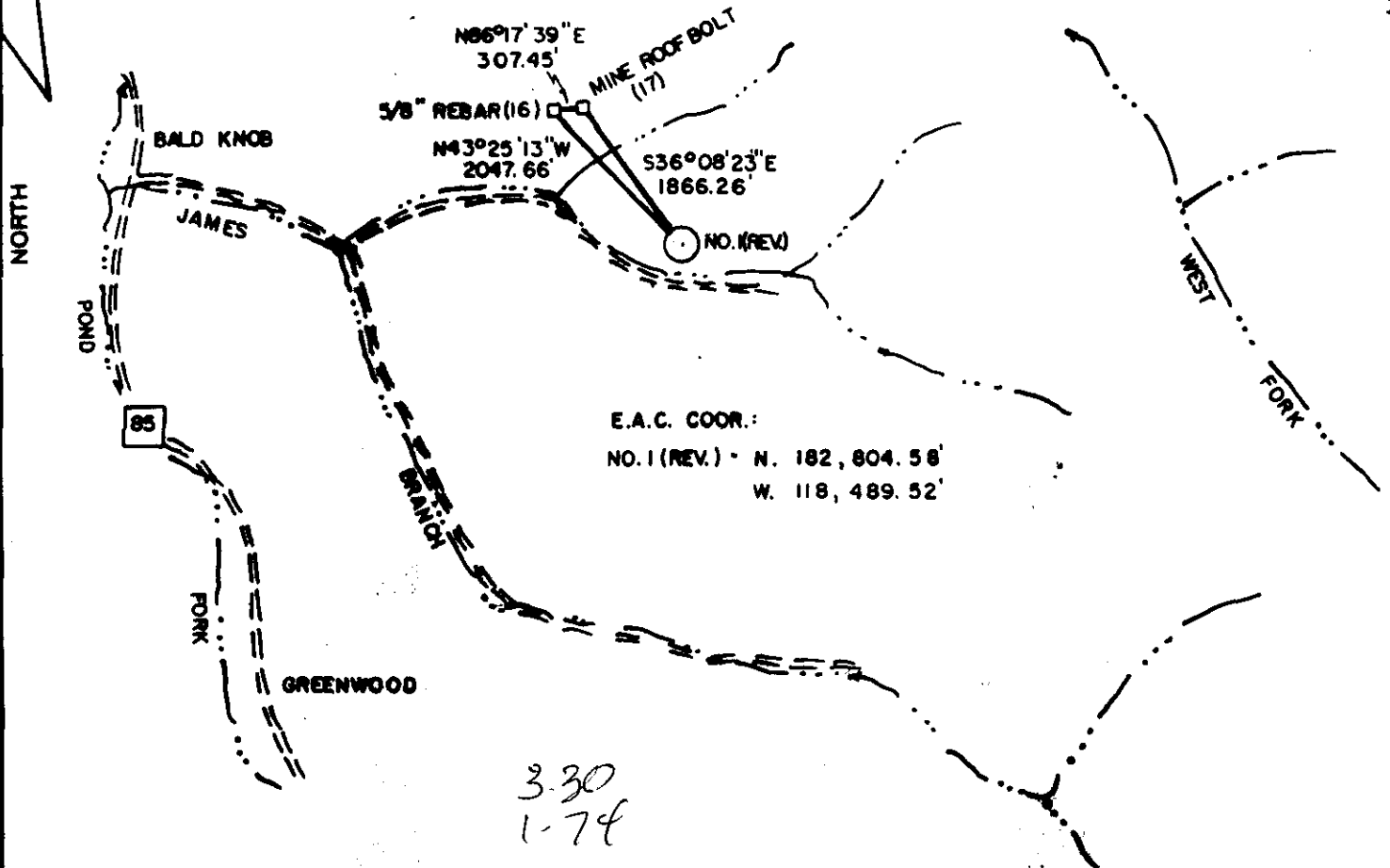
WELL REFERENCES:
 N68°W, 193' TO 12" HIGHWAY
 N74°30' W, 136' TO 6" ASH

1476(25)
 1844

NO.1 (REV.) 2400'

1475 (25)
 1892

1489(25)
 2029

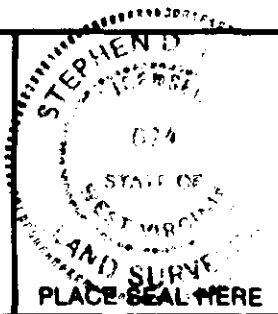


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 2500
 PROVEN SOURCE OF ELEVATION MINE ROOF BOLT (17)
 ELEV. - 1733.70'

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.

(SIGNED) [Signature]
 R.P.E. _____ L.L.S. 674
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE SEPTEMBER 22, 1995
 OPERATOR'S WELL NO. C.N.B. NO.1 (REV.)
 API WELL NO.

47-005-01632-Rev.

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1582' WATERSHED JAMES BRANCH
 DISTRICT CROOK COUNTY BOONE
 QUADRANGLE PILOT KNOB 7.5 min. Bald Knob-C
 SURFACE OWNER CHARLESTON NATIONAL BANK ACREAGE 18,804.55
 OIL & GAS ROYALTY OWNER CHARLESTON NATIONAL BANK LEASE ACREAGE 23,649.70
 LEASE NO. 80210

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 W&B ESTIMATED DEPTH 3600' 6-0 247 9 1995
 WELL OPERATOR BOWIE, INC. DESIGNATED AGENT WILLIAM BOWIE
 ADDRESS P.O. BOX 1430 ADDRESS P.O. BOX 1430
CLARKSBURG, WV 26302-1430 CLARKSBURG, WV 26302-1430

COUNTY NAME

PERMIT

LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-2018

92 10' LATITUDE 37° 52' 30"

0.425
1.74W

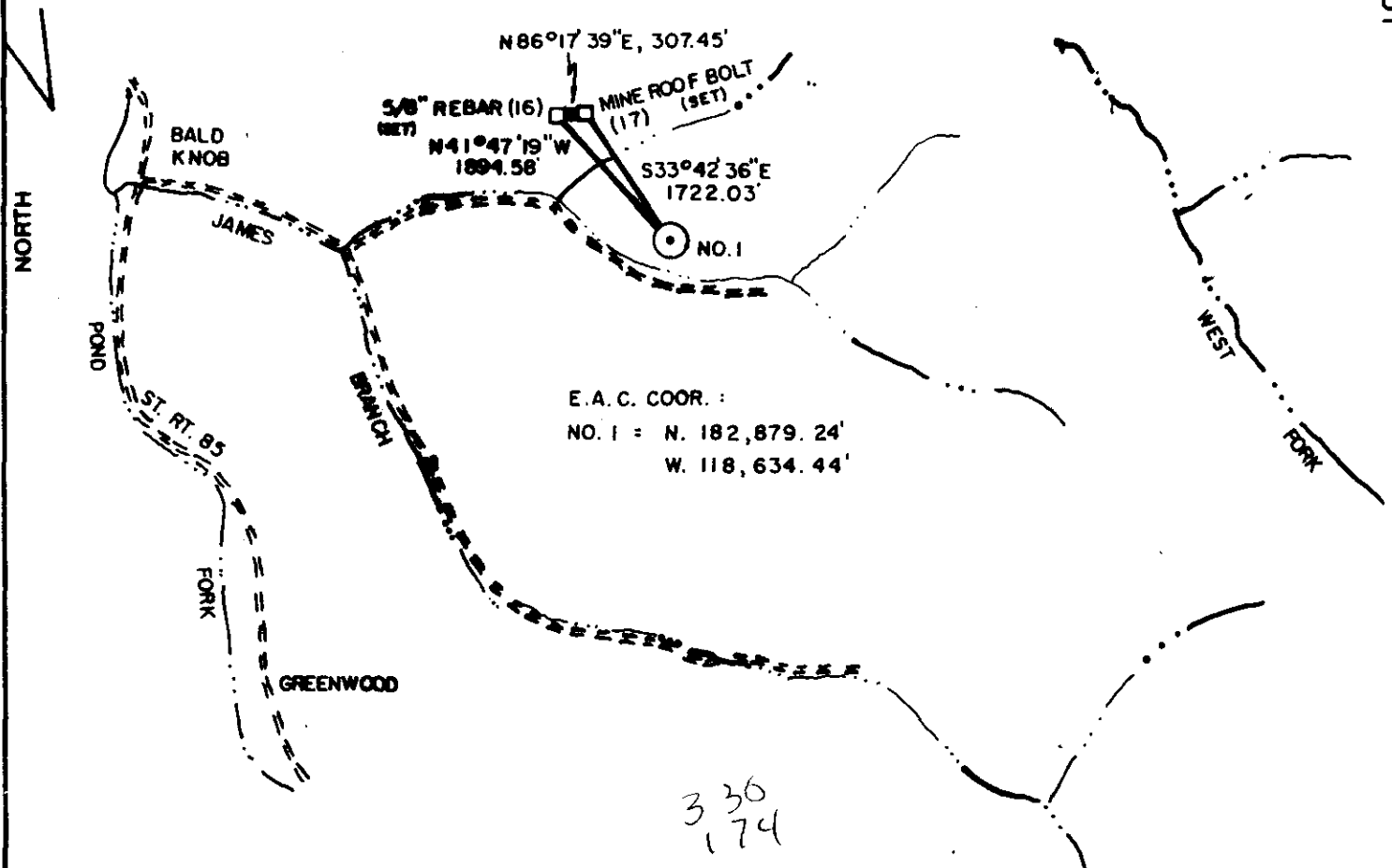
1476 (25)
1903'

NO. 1
2400'

1475 (28)
1981'

1469 (25)
2148'

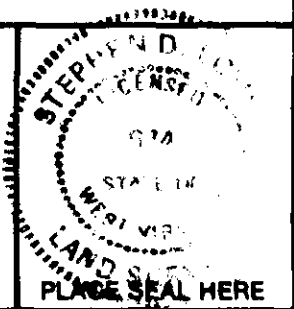
WELL REFERENCES:
S39°E, 122' TO 15" W. OAK
N71°W, 165' TO 6" HICKORY



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

FILE NO. _____
DRAWING NO. _____
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MINIMUM DEGREE OF ACCURACY 1 in 2500
PROVEN SOURCE OF ELEVATION MINE ROOF BOLT (17)
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(SIGNED) _____
R.P.E. _____ L.L.S. 674
STEPHEN D. LOSH



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE JULY 10, 1995
OPERATOR'S WELL NO. CHAS. NATL. BANK NO. 1
API WELL NO.

47 - 005 - 01632
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
LOCATION: ELEVATION 1568' WATERSHED JAMES BRANCH
DISTRICT CROOK COUNTY BOONE
QUADRANGLE PILOT KN08 7.5 min. Bald Knob
SURFACE OWNER CHARLESTON NATIONAL BANK ACREAGE 18,804.55
OIL & GAS ROYALTY OWNER CHARLESTON NATIONAL BANK LEASE ACREAGE 23,649.70
LEASE NO. 80210

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 WEIR ESTIMATED DEPTH 3600'
WELL OPERATOR BOWIE, INC. DESIGNATED AGENT WILLIAM BOWIE
ADDRESS P.O. BOX 1430 ADDRESS P.O. BOX 1430
CLARKSBURG, WV 26302-1430 CLARKSBURG, WV 26302-1430

2200'
00 52' 30" LONGITUDE
COUNTY NAME
PERMIT

RECEIVED

WV Division of Environmental Protection

WR-35

API #: 47-005-01632

JAN 22 1996

State of West Virginia Division of Environmental Protection

Permitting Office of Oil & Gas

Well Operator's Report of Well Work

Farm Name: CNB

Operator Well Number: #1-REV. #17 B-146

Elevation: 1582

Quadrangle: PILOT KNOB

District: CROOK
Latitude: 2250 Feet South of
Longitude: 9080 Feet West of

County: BOONE
37 Deg. 52 Min. 30.00 Sec.
81 Deg. 35 Min. 00.00 Sec.

Company: BOWIE, INC.
PO DRAWER 1430
CLARKSBURG, WV 26302-1430

Agent: GROVER BOWIE

Inspector: RICHARD CAMPBELL

Permit Issued: 9/28/95

Well Work Commenced: 11/11/95

Well Work Completed: 11/18/95

Verbal Plugging

Permission granted on:

Rotary Cable: Rig

Total Depth (feet): 3650

Fresh Water Depths (ft): N/A

Salt Water Depths (ft): N/A

Table with 4 columns: Casing and Tubing, Used in Drilling, Left in Well, Cement Fill Up in SKS. Rows include 11 3/4, 9 5/8, 7, and 4 1/2.

Is Coal Being Mined in the Area? (Y/N) Y

Coal Depths (ft) 71-7, 318-23, 346-50, 361-8

OPEN FLOW DATA

Producing formation WEIR, BIG LIME Pay zone depth (ft) 3555-3558, 3330-3340
Gas: Initial open flow: SHOW MCF/day Oil: Initial open flow: N/A BBL/day
Final open flow: SHOW MCF/day Final open flow: N/A BBL/day
Time of open flow between initial and final tests: 12 Hours
Static Rock Pressur 290 psig (surface pressure) after 24 Hours

Producing formation BEREA Pay zone depth (ft) 2981-2985
Gas: Initial open flow: COMINGLED MCF/day Oil: Initial open flow: BBL/day
Final open flow: MCF/day Final open flow: BBL/day
Time of open flow between initial and final tests: Hours
Static Rock Pressur 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 WELBORE.

For: BOWIE, INC.

By: Grover Bowie

Date: 1-18-96

API: 47-005-01632

BOWIE # 148

CNB #1-REV.#17

Stage 1 Frac: (3555-3558) 12 HOLES, 500 GAL 15% HCL, 250 SKS SAND, 300 BBL 75Q N2 FOAM

Stage 2 Frac: (3330-3340) 24 HOLES, 500 GAL 15% HCL, 500 SKS SAND, 560 BBL 75Q N2 FOAM

Stage 3 Frac: (2981-2985) 16 HOLES, 1500 GAL 28% HCL, 3000 GAL 15% HCL

Stage 4 Frac:

Stage 5 Frac:

FORMATION	TOP	BOTTOM	COMMENT
Sand	5	71	
Coal	71	77	
Coal	319	323	
Coal	346	350	
Coal	361	368	
Open Mine	489	496	
Sand	1096	1300	
Sand	1495	1522	
Sand	1582	1695	
Sand	1700	1875	
Ravencliff Sand	1875	1957	
Avis Lime	2026	2080	
Sand	2080	2175	
Maxton	2175	2355	
Sand	2355	2436	
Sand	2478	2483	
Sand	2510	2520	
Sand	2573	2593	
Little Lime	2630	2687	
Big Lime	2715	3015	
Sand	3015	3080	
Weir	3310	3330	
Berea Sand	3545	3555	
Sand & Shale	3555	3650	DTD - Gas Show