

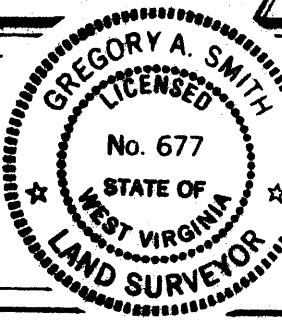
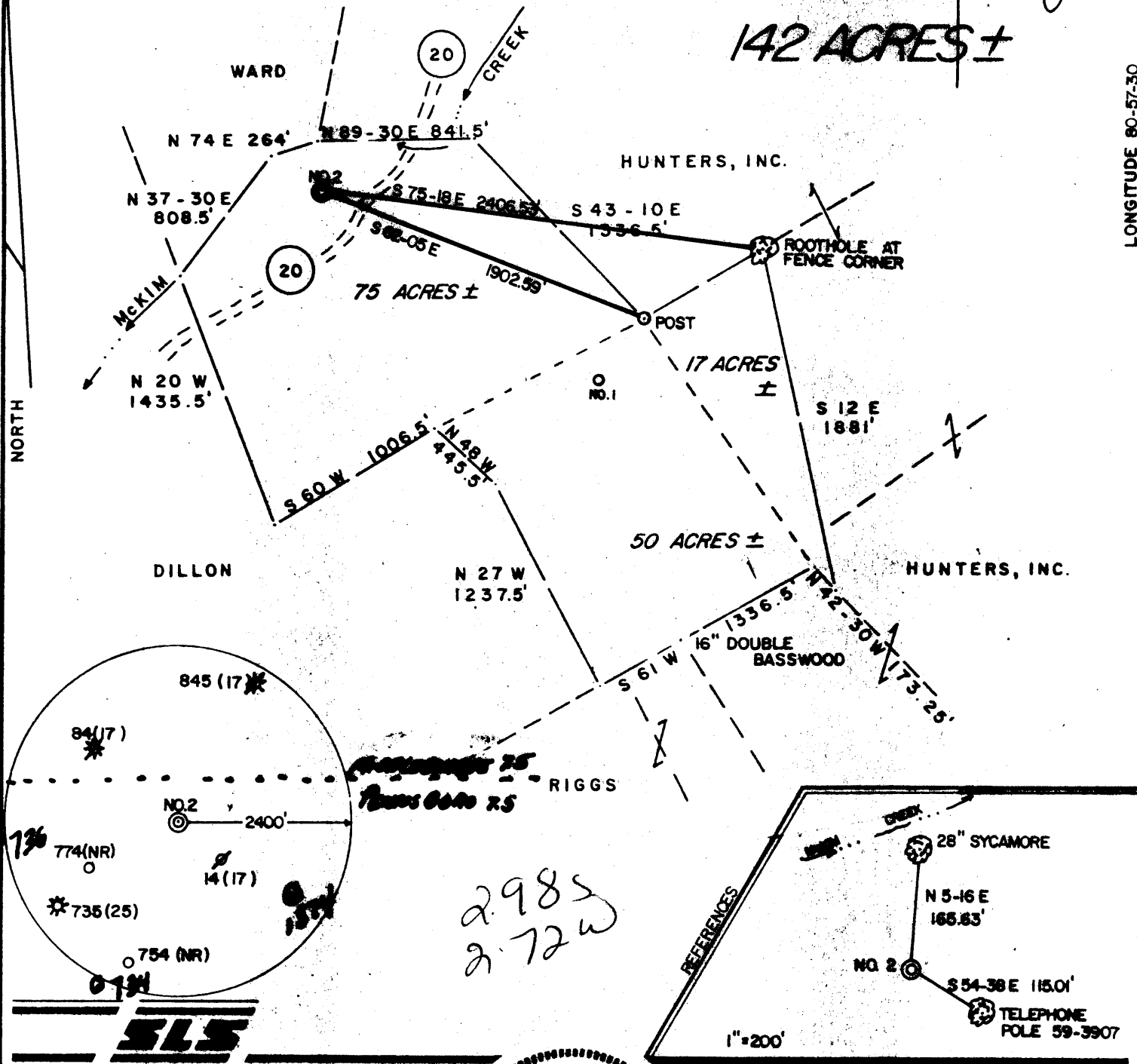
Jamie 6/25/76

1/23/95 HILL LEASE

HILL WELL NO. 2

*0.105
0.49W*

142 ACRES ±



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 FEBRUARY 27, 19 90
OPERATORS WELL NO. HILL NO. 2
API WELL NO. 47-095-1401-F
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2202 (13-15)
PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEV. 812' SCALE 1"=800'

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 812' WATERSHED MCKIM CREEK
DISTRICT MEADE COUNTY TYLER QUADRANGLE PENNSBORO 75

SURFACE OWNER PALMER HILL ET. UX. ACREAGE 75 *WU WU*
ROYALTY OWNER PALMER HILL ET. UX. LEASE ACREAGE 75 OF 142

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) Squary free 5th 4th. Remove plug coming with Benson. TARGET FORMATION BENSON
ESTIMATED DEPTH 5300'

WELL OPERATOR Ad. Watcher Energy Dev. DESIGNATED AGENT George R. Williams
ADDRESS Route 1, Box 499, Marlinton, W.V. 26054 ADDRESS Route 1, Box 499, Marlinton, W.V.

LONGITUDE 80-57-30
TYLER
PERMIT 1401

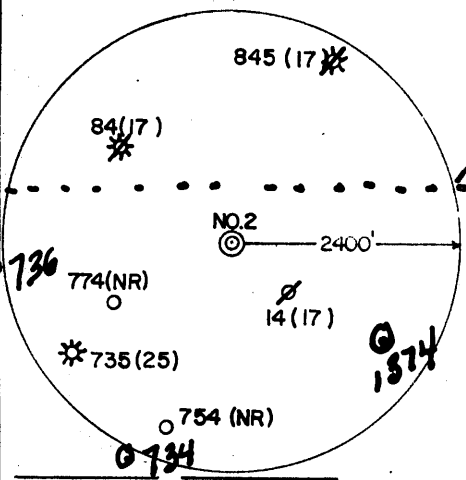
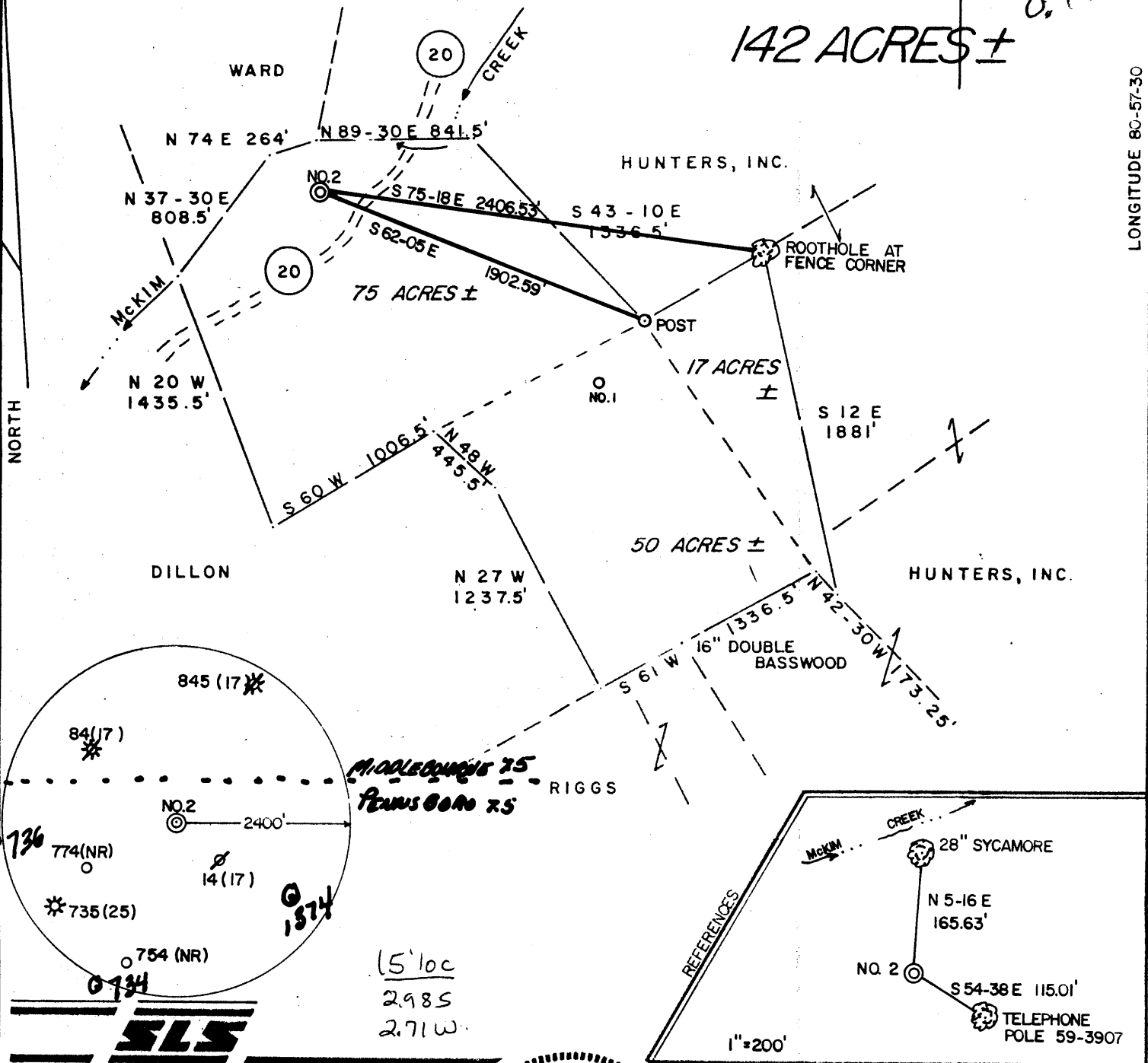
Jamie 6/25/90

HILL LEASE

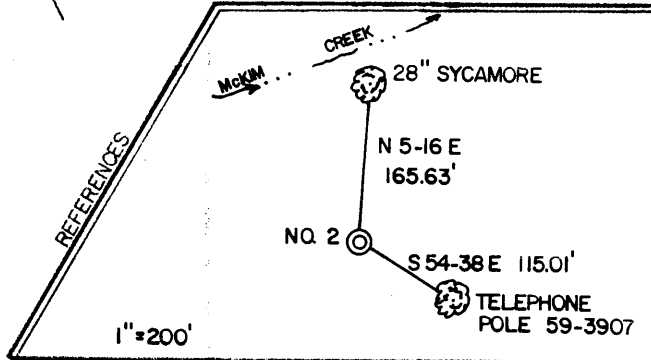
HILL WELL NO. 2

0.40 S
0.48 W

142 ACRES ±

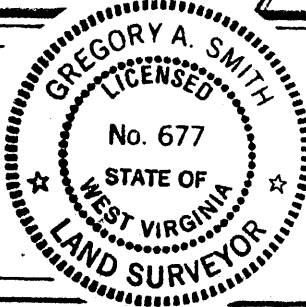


15' loc
2.985
2.71 W



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 FEBRUARY 27, 19 90
OPERATORS WELL NO. HILL NO. 2
API WELL NO. 47 - 095 - 1401 was 1063
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2202 (13-15)
PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEV. 812' SCALE 1"=800'

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 812' WATERSHED McKIM CREEK COUNTY NAME West Union WC
DISTRICT MEADE 4 COUNTY TYLER QUADRANGLE PENNSBORO 75'

SURFACE OWNER PALMER HILL ET. UX. ACREAGE 75
ROYALTY OWNER PALMER HILL ET. UX. LEASE ACREAGE 75 OF 142

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 BENSON
ESTIMATED DEPTH 5300'

WELL OPERATOR CHESTERFIELD ENERGY CORP. 163 DESIGNATED AGENT SAMUEL J. CANN JUL 6 1990
ADDRESS 203 WEST MAIN ST. CLARKSBURG, WV. 26301 ADDRESS 203 WEST MAIN ST. CLARKSBURG, WV. 26301

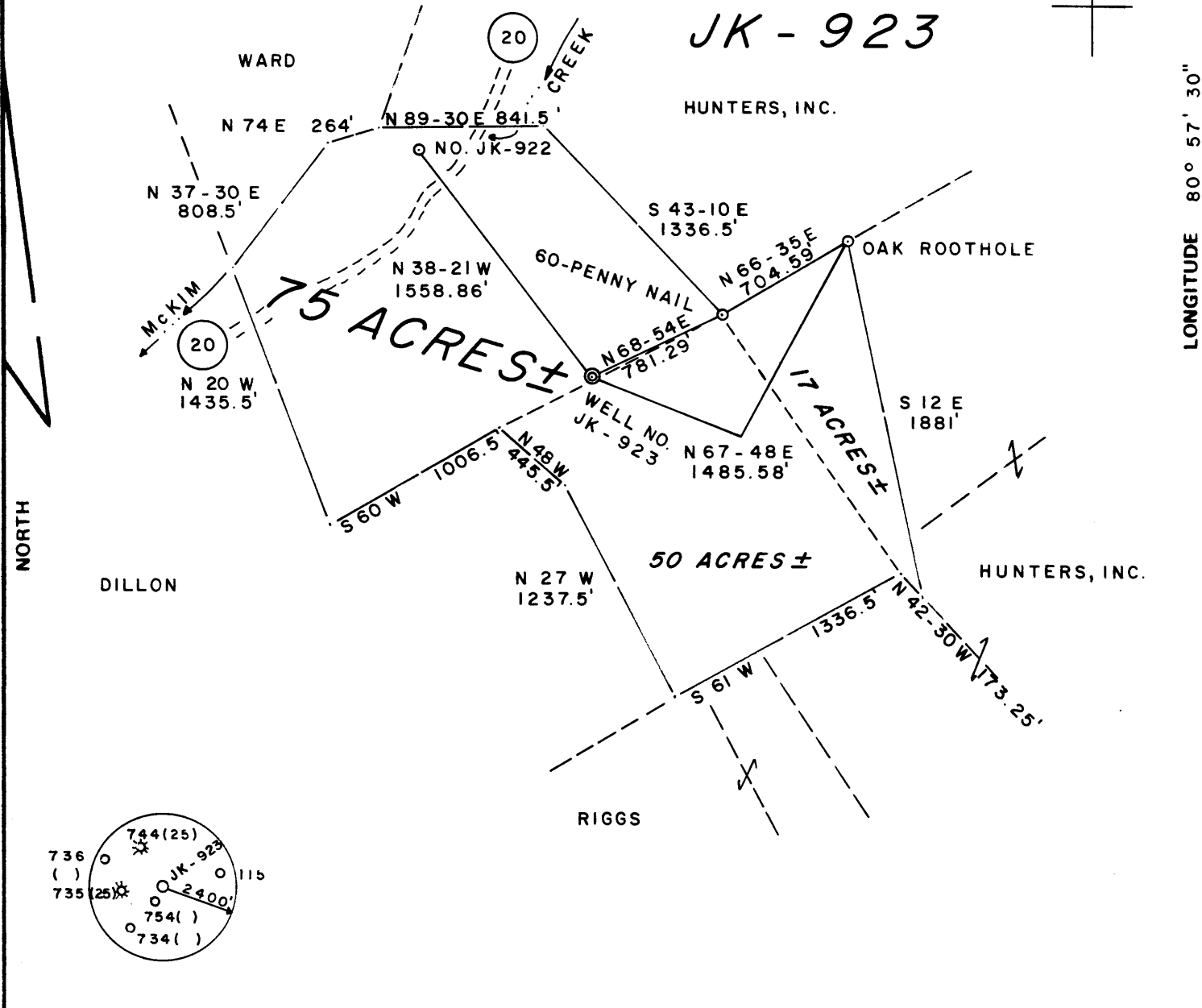
1520'

LATITUDE 39° 22' 30"

HILL LEASE WELL NO.

JK - 923

LONGITUDE 80° 57' 30"



FILE NO. 13 - 15
 DRAWING NO. _____
 SCALE 1" = 800'
 MINIMUM DEGREE OF ACCURACY 1 / 200
 PROVEN SOURCE OF ELEVATION JUNCT. OF ROADS
ELEV. 812'

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 MINES.
 (SIGNED) Gregory A. Smith
 R.P.E. _____ L.L.S. 677

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE MARCH 21, 19 84
 OPERATOR'S WELL NO. JK - 923
 API WELL NO. 47 - 095 - 1063
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 974' WATER SHED McKIM CREEK
 DISTRICT MEADE COUNTY TYLER
 QUADRANGLE PENNSBORO 7.5'
 SURFACE OWNER PALMER & IRENE HILL ACREAGE 75
 OIL & GAS ROYALTY OWNER PALMER & IRENE HILL LEASE ACREAGE 75
 LEASE NO. JJ-1526
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

APR 7 1986

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5990'
 WELL OPERATOR J & J ENTERPRISES, INC. DESIGNATED AGENT RICHARD M. REDDECLIFF
 ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48
BUCKHANNON, WV 26201 BUCKHANNON, WV 26201

FEB 17 1995

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

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: SNIDER, TERRY L. Operator Well No.: HILL #2

LOCATION: Elevation: 812.00 Quadrangle: PENNSBORO

District: MEADE County: TYLER
Latitude: 530 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 2610 Feet West of 80 Deg. 57 Min. 30 Sec.

Company: APPALACHIAN ENERGY DEVELO
ROUTE 2, BOX 499
GRAFTON, WV 26354-0499

Agent: GEORGE WILLIAMS

Inspector: MIKE UNDERWOOD
Permit Issued: 01/24/95
Well work Commenced: 01/28/95
Well work Completed: 02/02/95
Verbal Plugging
Permission granted on: _____
Rotary _____ Cable _____ Rig
Total Depth (feet) _____
Fresh water depths (ft) _____
Salt water depths (ft) _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
4 1/2"		3550'	450 sx

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

OPEN FLOW DATA

Producing formation Warren Shale Pay zone depth (ft) 3266-98
Gas: Initial open flow show MCF/d Oil: Initial open flow trace Bbl/d
Final open flow 200 MCF/d Final open flow trace Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 650 psig (surface pressure) after _____ Hours

Second producing formation Fifth Sand Pay zone depth (ft) 2702-05
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

Third Producing Zone Weir Sand 2159-84 pay zone depth
all three zones commingled

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: APPALACHIAN ENERGY DEVELOPMENT, INC.

By: George Williams
Date: February 15, 1995

GEOLOGICAL WELL RECORD DATA

COMPANY NAME: Appalachian Energy Development Company
 WELL NAME: Hill #2
 PERMIT NO.: 47- 95-01401 F

FORMATION	TOP	BOTTOM	NOTES
Big Lime	1682	1824	
Big Injun Sand	1826	1948	
Weir Sand	2132	2228	
* Berea Sand	2318	2322	
Gordon Sand	2582	2612	
* Fifth Sand	2700	2705	
* Warren Shale	3264	3320	

STIMULATION

Warren Sand 60 Q Foam 250 sack 20/40

Small Mouth Frac Plug @ 2770

Fifth Sand N2 Assist 250 sack 20/40

Large Month Frac Plug @ 2250

Weir Sand N2 Assist 250 sack 20/40

Solid Plug @ 3630 for Cement Squeeze

Work on September 22, 1994, Cement Squeeze perforations at 3010.

Bond Log showed actual cement top at 1510 feet

Former Cement top at 3254 feet.

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: HILL, PALMER

Operator Well No.: HILL 2 ^{SEPT 14}

LOCATION: Elevation: 812.00 Quadrangle: PENNSBORO

District: MEADE County: TYLER
Latitude: 530 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 2610 Feet West of 80 Deg. 57 Min. 30 Sec.

Company: CHESTERFIELD ENERGY CORP.
203 WEST MAIN STREET
CLARKSBURG, WV 26301-0000

Agent: SAMUEL J. CANN

Inspector: GLEN P. ROBINSON
Permit Issued: 06/29/90
Well work Commenced: 07/17/90
Well work Completed: 07/24/90

Verbal Plugging
Permission granted on: _____
Rotary XX Cable _____ Rig _____
Total Depth (feet) 4887'
Fresh water depths (ft) 48'

Salt water depths (ft) None

Is coal being mined in area (Y/N)? N
Coal Depths (ft): None

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"		15'	
11 3/4"		32'	
8 5/8"		1084'	250 sks
4 1/2"		4848'	190 sks

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4718'-4726'
Gas: Initial open flow 26 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 984 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 1050 psig (surface pressure) after 48 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: Samuel J. Cann
CHESTERFIELD ENERGY CORP.
By: *Samuel J. Cann*
Date: September 1, 1990

SEP 24 1990

FRAC INFORMATION:

Benson 15 Holes
 45,000# 20/40 Sand
 8,000# 80/100 Sand
 BBLs Water
 SCF Nitrogen

Dirt	0	48
Sand & Shale	48	411
Sand	411	630
Red Rock & Shale	630	1027
Sand & Shale	1027	1690
Big Lime	1690	1770
Injun	1770	1928
Sand & Shale	1928	2150
Weir	2150	2226
Sand & Shale	2226	2694
Gordon	2694	2710
Sahle	2710	3256
Balltown	3256	3310
Shale	3310	4360
Riley	4360	4394
Shale	4394	4718
Benson	4718	4726
Shale	4726	4887
TD	4887	

1" stream Water @ 48'

Gas Ck @ 1947' No Show
 Gas Ck @ 2318' 6/10-1" w/w
 Gas Ck @ 3336' No Show
 Gas Ck @ 4821' No Show





1) Date: MARCH 21, 19 84
 2) Operator's Well No. JK-923
 3) API Well No. 47 - 095 - 1063
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage / Deep / Shallow)
 5) LOCATION: Elevation: 974' Watershed: MCKIM CREEK
 District: MEADE County: TYLER Quadrangle: PENNSBORO 7.5'
 6) WELL OPERATOR J & J ENTERPRISES, INC. 7) DESIGNATED AGENT RICHARD M. REDDECLIFF
 Address P.O. BOX 48 Address P.O. BOX 48
BUCKHANNON, WV 26201 BUCKHANNON, WV 26201
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name ROBERT A. LOWTHER Name S.W. JACK DRILLING CO.
 Address GENERAL DELIVERY Address P.O. BOX 48
MIDDLEBOURNE, WV 26149 BUCKHANNON, WV 26201
 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION, DEVONIAN SHALE
 12) Estimated depth of completed well, 5990' feet
 13) Approximate trata depths: Fresh, 155' feet; salt, 0 feet.
 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes / No

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			Left in well
Conductor	11 3/4	H40	42	X		30'	0	0 sks.	Kinds
Fresh water	85/8	ERW	23	x		1100 1074	1100 1074	TO surface	ATEAT
Coal	85/8	ERW	23	x		1100	9100	To surface	Sizes
Intermediate									Depth set
Production	4 1/2	J55	10 1/2	X		5990'	5940'	450 sks.	Perforations: Top Bottom
Tubing									
Liners									

RECEIVED
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 MARCH 23 1984

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-095-1063 Date March 23, 19 84

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 March 23, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <input checked="" type="checkbox"/>	Plat:	Casing	Fee
BLANKET	LD	MH	MH	1492

Margaret J. Hesse
 Administrator, Office of Oil and Gas

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

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

File

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

Issued 6/29/90
Expires 6/29/92

- 1) Well Operator: CHESTERFIELD ENERGY CORP. 9550 (4) 538
- 2) Operator's Well Number: HILL NO. 2 3) Elevation: 812'
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): BENSON 635
- 6) Proposed Total Depth: 5300' feet
- 7) Approximate fresh water strata depths: 30' 102'
- 8) Approximate salt water depths: N/A ? 1640'?
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: DRILL & STIMULATE New Well
- 12)

RECEIVED
Division of Energy
JUN 15 90
Permitting
Oil and Gas Section

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
<u>W/C 2/28/90</u> Conductor	11 3/4			30'	0'	0
Fresh Water	8 5/8			1000'	1000' <u>CTS.</u>	BY RULE 38, CSR 18-11.3
Coal						
Intermediate						
Production	4 1/2			5300'	5300'	BY RULE 38 CSR 18-11.1
Tubing						
Liners						

10525

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

9356 #16

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket Sure Agent
(Type)

RECEIVED

Page 1 of 7
Form WW2-A
(09/87)
File Copy

Division of Energy
JUN 15 90
Permitting
Oil and Gas Section

1) Date: FEBRUARY 26, 1990
2) Operator's well number
HILL NO. 2
3) API Well No: 47 - 095 - 1401
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name PALMER HILL
Address P.O. BOX 545
PENNSBORO, WV 26415
(b) Name _____
Address _____
(c) Name _____
Address _____

5) (a) Coal Operator:
Name N/A
Address _____

(b) Coal Owner(s) with Declaration
Name N/A
Address _____

Name _____
Address _____

6) Inspector GLEN P. ROBINSON
Address RT. 1 #6 MT. PLEASANT ESTATE
MINERALWELLS, WV 26150
Telephone (304)- 489-2736

(c) Coal Lessee with Declaration
Name N/A
Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR XX Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 7 on the above named parties, by:

- _____ Personal Service (Affidavit attached)
- _____ Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator CHESTERFIELD ENERGY CORP.
By: [Signature]
Its: VICE PRESIDENT OF LAND & CONTRACTS
Address 203 WEST MAIN STREET
CLARKSBURG, WV 26301
Telephone 623-5467

Subscribed and sworn before me this 27th day of FEBRUARY, 1990

[Signature] Notary Public
My commission expires June 14, 1994