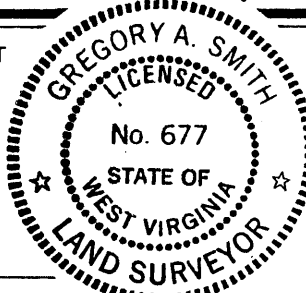
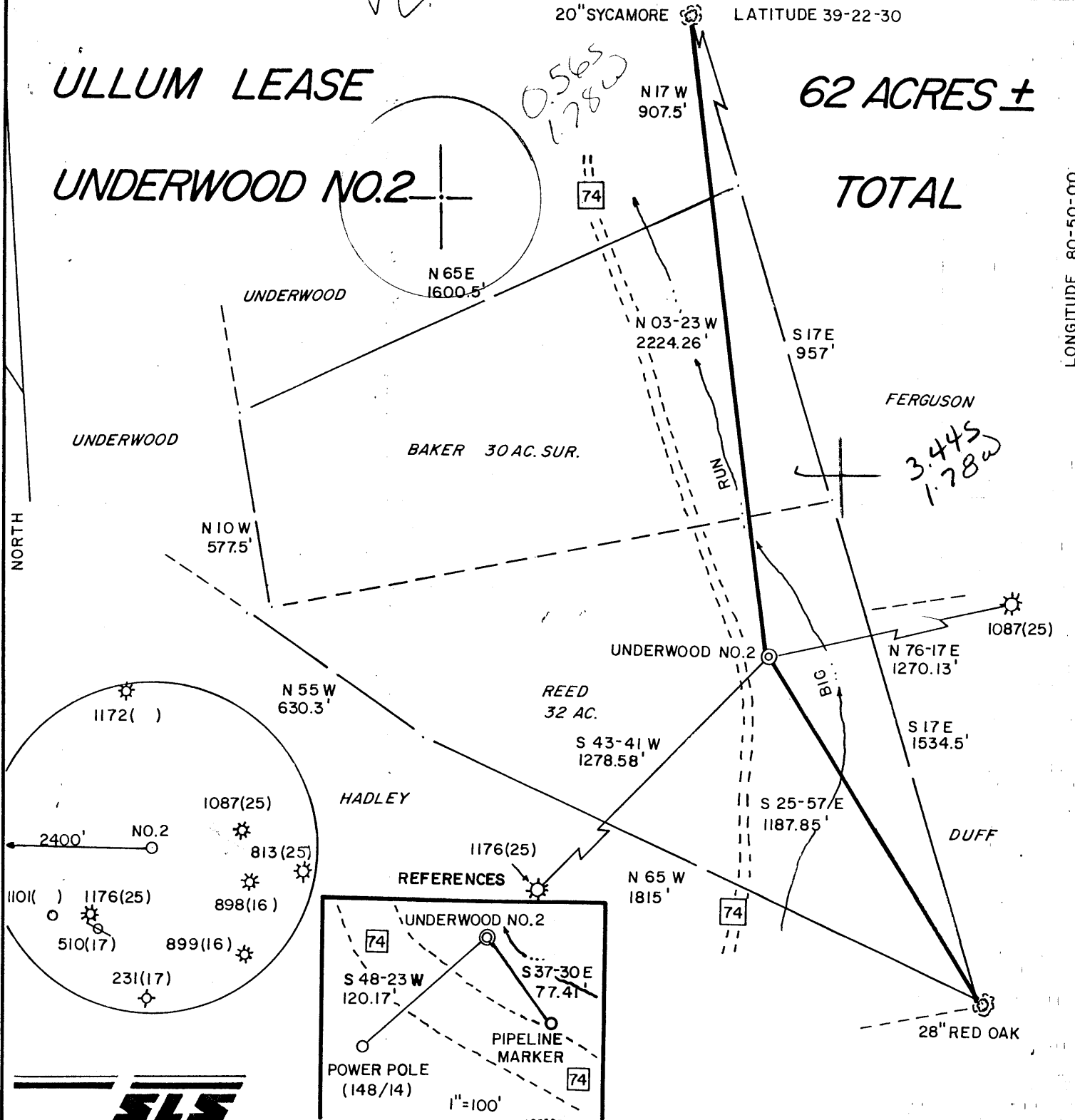


ULLUM LEASE

UNDERWOOD NO.2

62 ACRES ±

TOTAL



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. 677 Gregory A. Smith

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JULY 8, 19 87
 OPERATORS WELL NO. UNDERWOOD NO.2
 API WELL NO. 47 - 095 - 1201
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1683 (20-68)
 PROVEN SOURCE OF ELEVATION BM. ELEV. 782' SCALE 1"=400'

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 760' WATERSHED BIG RUN
 DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE WEST UNION 7.5' 671

SURFACE OWNER RICHARD L. and SARA REED ACREAGE 32 of 62 133
 ROYALTY OWNER ROY L. ULLUM et. al. LEASE ACREAGE 32 of 62 65

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 5500'

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

JUL 20 1987

6-6 Wilbur (92)



IV-35
(Rev 8-81)

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AUG 19 1987

State of West Virginia

Department of Mines
Oil and Gas Division

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date August 17, 1987
Operator's Well No. Underwood #2
Farm _____
API No. 47 - 095 - 1201

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 760' Watershed Big Run
District: Centerville County Tyler Quadrangle West Union 7.5'

COMPANY Chesterfield Energy Corporation
ADDRESS 203 West Main St., Clarksburg, WV 26301
DESIGNATED AGENT Samuel J. Cann
ADDRESS 203 West Main St., Clarksburg, WV 26301
SURFACE OWNER Richard & Sara N. Reed
ADDRESS Rt. 2, Box 125, Pennsboro, WV 26415
MINERAL RIGHTS OWNER Roy L. Ullum, et ux
ADDRESS Box A-2, Rt. 18, Alma, WV 26320
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther
ADDRESS General Delivery Middlebourne, WV 26149
PERMIT ISSUED July 17, 1987
DRILLING COMMENCED August 4, 1987
DRILLING COMPLETED August 8, 1987

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
11 3/4 11 3/4	51'	Left in ground	
9 5/8			
8 5/8	971'		215 sks
7			
5 1/2			
4 1/2	4757'		200 sks
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

GEOLOGICAL TARGET FORMATION Benson Depth _____ feet
Depth of completed well 4817 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 78', 275' feet; Salt _____ feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4685'-4700' feet
Gas: Initial open flow 36.5 Mcf/d Oil: Initial open flow _____ Ebl/d
Final open flow 420 Mcf/d Final open flow _____ Ebl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1550 psig (surface measurement) after 60 hours shut in
(If applicable due to multiple completion--)
Second producing formation Riley Pay zone depth 4280'-4320' feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Ebl/d
COMMINGLED WITH FIRST STAGE
Final open flow _____ Mcf/d Oil: Final open flow _____ Ebl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.,

Benson 50,000# 20/40 Sand
70 Quality Foam; 252 BBLs Water
490,000 SCF Nitrogen

Riley 25,000# 20/40 Sand
70 Quality Foam; 146 BBLs Water
230,000 SCF Nitrogen

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Clay			0	6	3/4" stream @ 78'
Creek Bed			6	12	1" stream @ 275'
Sand & Shale			12	109	
Red Rock			109	122	
Sand			122	400	
Sand & Shale			400	631	
Sand			631	920	
Sand & Shale			920	1220	
Sand			1220	1632	
Big Lime			1632	1682	
Injun			1682	1835	Gas Ck @ 1760' 80/10-1" w/w
Sand & Shale			1835	2008	Gas Ck @ 2073' 24/10-1" w/w
Weir			2008	2110	
Sand & Shale			2110	2776	Gas Ck @ 3143' 14/10-1" w/w
Shale			2776	3850	Gas Ck @ 4676' 12/10-1" w/w
Sand & Shale			3850	3915	
Shale			3915	4280	
Riley			4280	4320	
Shale			4320	4685	
✓ Benson			4685	4700	
Shale			4700	4817	
TD			<u>4817</u>		

(Attach separate sheets as necessary)

CHESTERFIELD ENERGY CORPORATION

Well Operator

By:

Date: August 17, 1987

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

(Obverse)
7/85

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1) Date: July 8, 19 87
 2) Operator's Well No. Underwood #2
 3) API Well No. 47 State 095 County 1201 Permit

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

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 760' Watershed: Big Run
 District: Centerville / County: Tyler 095 Quadrangle: West Union 7.5' 090
- 6) WELL OPERATOR Chesterfield CODE: 9550 7) DESIGNATED AGENT Samuel J. Cann
 Address 203 W. Main St. Address 203 W. Main St.
Clarksburg, WV 26301 Clarksburg, WV 26301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Lowther
 Address General Delivery
Middlebourne, WV 26149
- 9) DRILLING CONTRACTOR: Name _____ Address _____
- 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, Benson
- 12) Estimated depth of completed well, 5500 feet
- 13) Approximate trata depths: Fresh, 60 feet; salt, N/A 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	H-40	42	X		150' 20'	150' 20'	0	Kinds
Fresh water	8 5/8	ERW	23	X		1300'	1300'	By Rule 15.05	Sizes
Coal									
Intermediate									
Production	4 1/2	J-55	10.5	X		5500'	5450'	By Rule 15.01	Depths set
Tubing									Perforations:
Lin...									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-095-1201 Date July 17, 1987

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 July 17, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

10462

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <input checked="" type="checkbox"/>	Posting: <input checked="" type="checkbox"/>	Fee: <u>820</u> <u>1209</u>	WPCP: <input checked="" type="checkbox"/>	Other: <input checked="" type="checkbox"/>
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NOTE: Keep one copy of this permit posted at the drilling location. Director, Division of Oil and Gas File

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