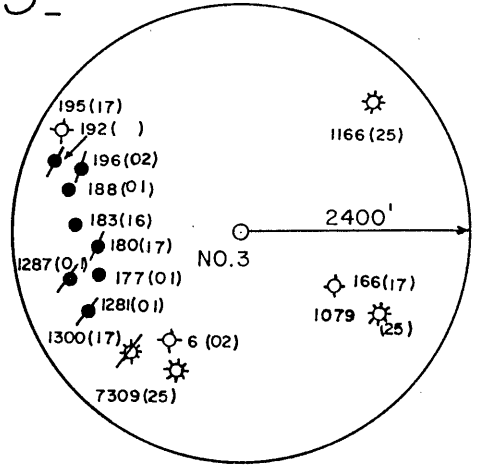
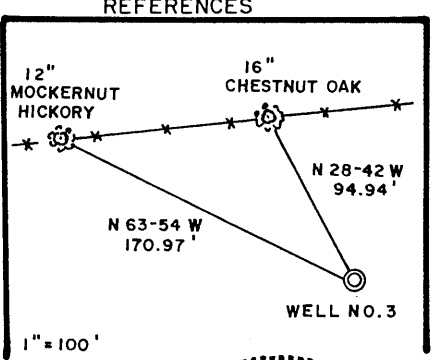
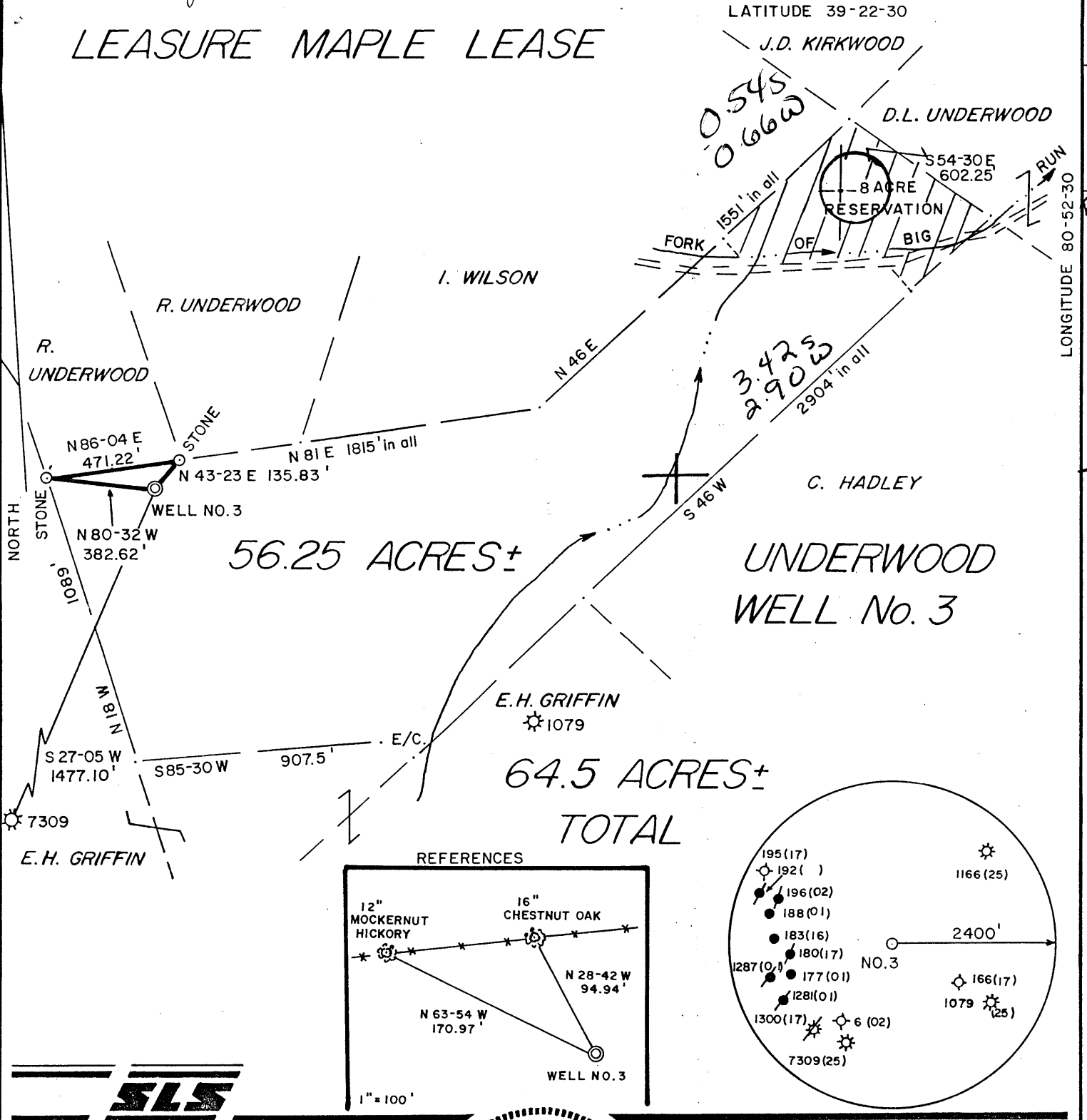


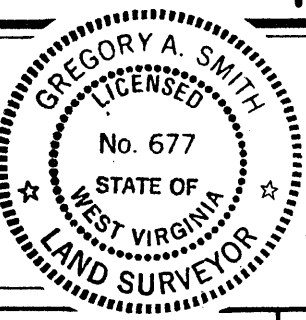
11/9/81

25 3500'

LEASURE MAPLE LEASE



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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE OCTOBER 7, 19 87
 OPERATORS WELL NO. UNDERWOOD NO. 3
 API WELL NO. 47 - 095 - 1218
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1738 (22-65)
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. 1382' SCALE 1" = 500'

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 1041' WATERSHED BIG RUN DISTRICT CENTERVILLE 1 COUNTY TYLER QUADRANGLE PENNSBORO 7.5' 539
 SURFACE OWNER RALPH & EMERY UNDERWOOD ACREAGE 56.25 of 64.5 133
 ROYALTY OWNER RALPH UNDERWOOD et.al. LEASE ACREAGE 56.25 of 64.5 CS
 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) _____ 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

NOV 16 1987



IV-35
(Rev 8-81)

Date December 8, 1987
Operator's
Well No. Underwood #3 Well
Farm _____
API No. 47 - 095 - 1218

RECEIVED
DEC 08 1987

State of West Virginia
Department of Mines
Oil and Gas Division

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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: 1041' Watershed Big Run
District: Centerville County Tyler Quadrangle Pennsboro 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 Ralph J. & Ethel V. Underwood
ADDRESS Rt. #2, Box 177, Pennsboro, WV 26415
MINERAL RIGHTS OWNER Ralph J. Underwood
ADDRESS Rt. #2, Box 177, Pennsboro, WV 26415
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther
ADDRESS General Delivery Middlebourne, WV 26149
PERMIT ISSUED November 9, 1987
DRILLING COMMENCED November 16, 1987
DRILLING COMPLETED November 21, 1987

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.			
13-10"		37'	
9 5/8			
8 5/8		985'	225 sks
7			
5 1/2			
4 1/2		5006'	200 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson Depth feet
Depth of completed well 5178 feet Rotary XX / Cable Tools _____
Water strata depth: Fresh 74', 1551' feet; Salt _____ feet
Coal seam depths: None Is coal being mined in the area? _____

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4942'-4951' feet
Gas: Initial open flow 146 Mcf/d Oil: Initial open flow _____ Ebl/d
Final open flow (528) Mcf/d Final open flow _____ Ebl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 1550 psig (surface measurement) after _____ hours shut in
(If applicable due to multiple completion--)

Second producing formation Riley Pay zone depth 4552'-4590' 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

DEC 14 1987

(Continue on reverse side)

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

Benson 7,000# 80/100 Sand; 27,000# 20/40 Sand
421,000 SCF Nitrogen

Riley 21,000# 20/40 Sand; 7,000# 80/100 Sand
584,000 SCF Nitrogen

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand			0	53	1 1/2" stream water @ 74'
Shale			53	98	Hole Damp @ 1551'
Sand			98	106	
Red Rock			106	124	
Sand & Shale			124	850	
Shale			850	989	
Red Rock			989	1036	
Shale			1036	1493	
Sand & Shale			1493	1551	
Red Rock & Shale			1551	1624	
Sand & Shale			1624	1916	
Big Lime			1916	1958	Gas Ck @ 1937' No Show
Injun			1958	2112	Gas Ck @ 2063' 32/10-2" w/w
Sand & Shale			2112	2282	Gas Ck @ 2499' 20/10-2" w/w
Weir			2282	2392	Gas Ck @ 2971' 36/10-2" w/w
Sand & Shale			2392	2890	Gas Ck @ 4629' 20/10-2" w/w
Gordon			2890	2900	Gas Ck @ 5002' 30/10-2" w/w
Shale			2900	3402	
Sand & Shale			3402	3450	Gas Ck @ TD 12/10-2" ww/
Shale & Sand			3450	4552	
Riley			4552	4590	
Shale			4590	4942	
Benson			4942	4951	
Shale			4951	5178	
TD			5178		

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

CHESTERFIELD ENERGY CORPORATION

Well Operator

By: _____

Date: _____

December 8, 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."

6374



1) Date: Oct. 7, 19 87
2) Operator's Underwood No. 3
Well No. XXXXXXXXXXXX
3) API Well No. 47 095-1218
State County Permit

(Obverse)
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NOV 05 1987

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, 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: 1041' Watershed: Big Run 538
District: Centerville County: Tyler 045 Quadrangle: Pennsboro 7.5'
- 6) WELL OPERATOR Chesterfield Energy CODE: 9550 7) DESIGNATED AGENT Samuel J. Cann
Address 203 W. Main St. 163 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 strata depths: Fresh, 110, 710, 775 feet; salt, N/A feet.
- 14) Approximate coal seam depths: 814-815 N/A 875-876 Is coal being mined in the area? Yes No
- 15) CASING AND TUBING PROGRAM FROM TYLER 160, 177, 180, 166

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		16'	0		
Fresh water	8 5/8	ERW	23	X		999'	999'		Kinds
Coal								CTS by Rule <u>15.05</u>	
Intermediate								<u>38CSR18-11.3</u>	<u>38CSR18-11.2.2</u>
Production	4 1/2	J-55	10.5	X		5500'	5450'	By Rule <u>15.07</u>	Depths set <u>38CSR18-11.1</u>
Tubing									
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-095-1218

November 9 19 87
Date

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 November 9 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond	Agent:	Plat:	Casing	Fee	WPP	SEP	Other
				<u>230</u>			
				<u>7513</u>			

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

[Signature]
Director, Division of Oil and Gas

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

File