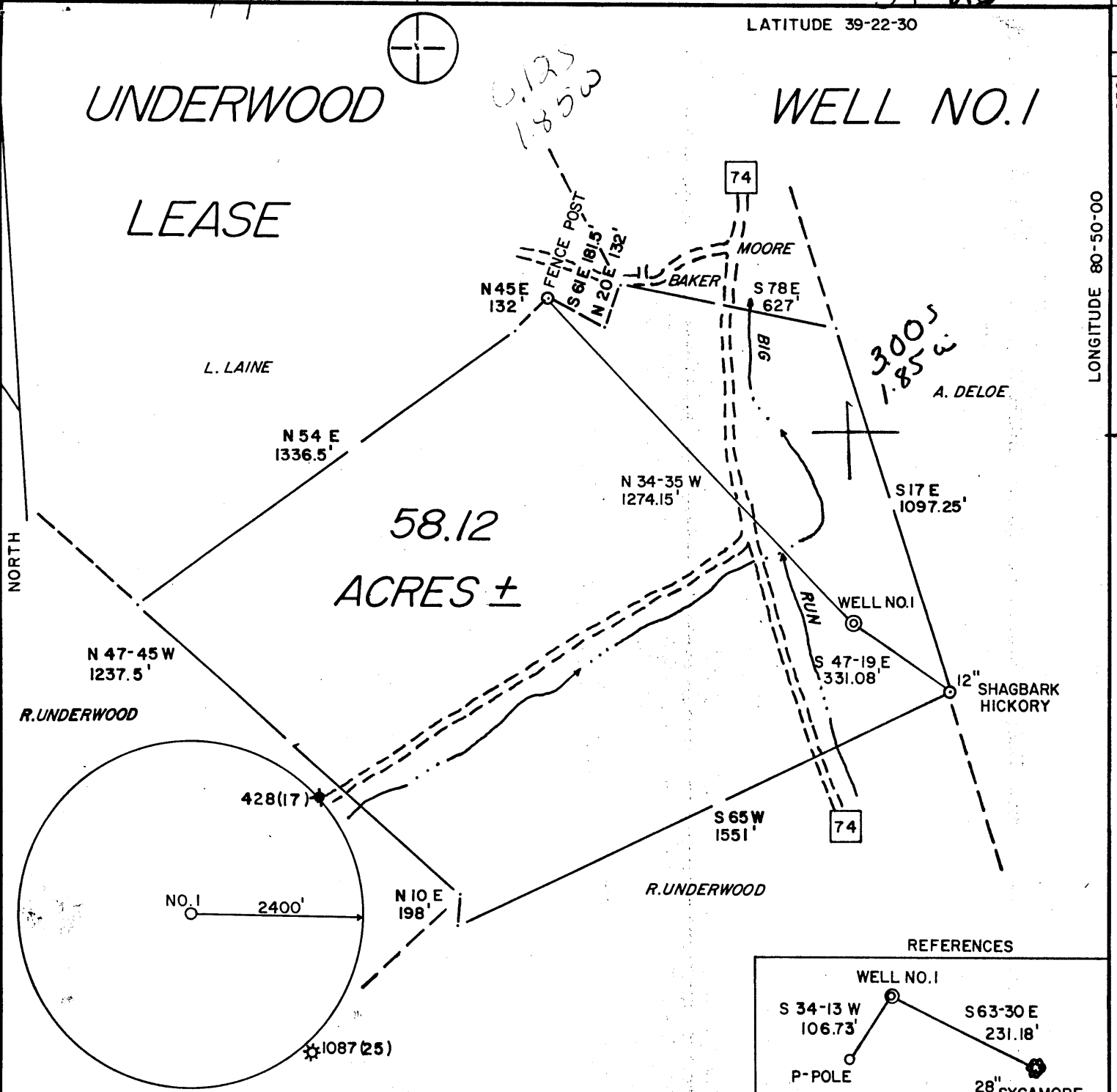
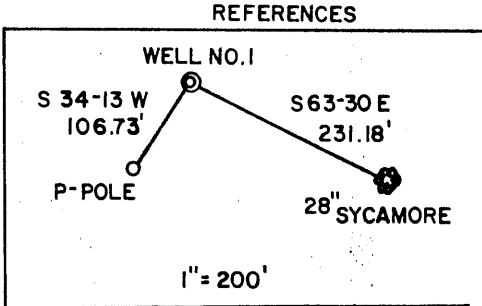
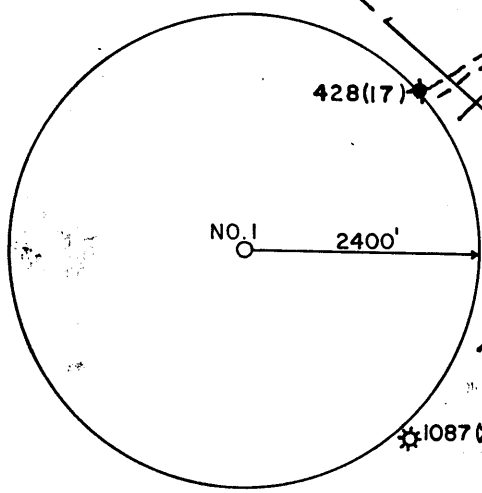


UNDERWOOD LEASE

WELL NO. 1

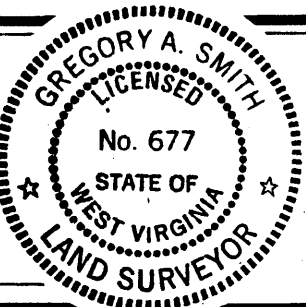


58.12
ACRES ±



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. 677 *Gregory A. Smith*



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

DATE FEBRUARY 4, 19 87

OPERATORS WELL NO. UNDERWOOD NO. 1


API WELL NO. 47 - 095 - 1172

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1602 (20-49)

PROVEN SOURCE OF ELEVATION BM. ELEV. 721' 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 755' WATERSHED BIG RUN OF MIDDLE ISLAND CREEK

DISTRICT CENTERVILLE 1 COUNTY TYLER QUADRANGLE WEST UNION 7.5' 671

SURFACE OWNER RALPH & ETHEL UNDERWOOD ACREAGE 58.12 133

ROYALTY OWNER RALPH & ETHEL UNDERWOOD LEASE ACREAGE 58.12 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 5000'

WELL OPERATOR CHESTERFIELD ENERGY CORP. DESIGNATED AGENT SAMUEL J. CANN

ADDRESS 203 WEST MAIN STREET, CLARKSBURG, WV 26301 ADDRESS 203 WEST MAIN STREET, CLARKSBURG, WV 26301

6-6 unnamed (0)

COUNTY NAME PERMIT 00-50-88 80-50-00

575



IV-35
(Rev 8-81)

Date March 5, 1987
Operator's
Well No. Underwood #1 Well
Farm _____
API No. 47 - 095 - 1172

RECEIVED State of West Virginia
MAR 12 1987 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: 755' 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 Ralph & Ethel Underwood
ADDRESS Rt. #2, Box 177, Pennsboro, WV 26415
MINERAL RIGHTS OWNER Ralph & Ethel Underwood
ADDRESS Rt. #2, Box 177, Pennsboro, WV 26415
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther
General Delivery
ADDRESS Middlebourne, WV 26149
PERMIT ISSUED February 19, 1987
DRILLING COMMENCED February 24, 1987
DRILLING COMPLETED March 1, 1987

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
11 3/4 11 3/4		40'	
9 5/8			
8 5/8		1292'	300 sks
7			
5 1/2			
4 1/2	4816'	4756'	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 4816 feet Rotary XX / Cable Tools _____
Water strata depth: Fresh 65', 540' feet; Salt _____ feet
Coal seam depths: 169'-171' Is coal being mined in the area? _____

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4690'-4700' feet
Gas: Initial open flow 169 Mcf/d Oil: Initial open flow _____ Ebl/d
Final open flow (615) Mcf/d Final open flow _____ Ebl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 1625 psig (surface measurement) after _____ hours shut in
(If applicable due to multiple completion--)
Second producing formation Riley Pay zone depth 4284'-4321' feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Ebl/d
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

MAR 16 1987

(Continue on reverse side)

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

Benson 35,000# 20/40; 75 Quality Foam
 Riley 35,000# 20/40; 75 Quality Foam

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Soil			0	10	
Sand & Shale			10	169	1 1/2" water @ 65'
Coal			169	171	2 1/2" water @ 540'
Shale & Red Rock			171	204	
Red Rock			204	217	
Sand & Shale			217	411	
Sand			411	425	
Sand & Shale			425	574	
Red Rock			574	598	
Sand & Shale			598	1626	
Big Lime			1626	1675	
Injun			1675	1845	
Sand & Shale			1845	2004	Gas Ck @ 2008' Odor
Weir			2004	2116	Gas Ck @ 3124' 2/10-1" w/w
Sand & Shale			2116	2192	Gas Ck @ 3530' 8/10-1" w/w
Berea			2192	2198	Gas Ck @ 4712' 16/10-2" w/w
Shale			2198	2428	
Gordon			2428	2433	
Shale			2433	4284	
Riley			4284	4321	
Shale			4321	4690	
✓ Benson			4690	4700	
Shale			4700	4816	
TD			4816		

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MAR 12 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

CHESTERFIELD ENERGY CORPORATION

Well Operator

By: Samuel J. [Signature]
 Date: March 5, 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."

7/85
RECEIVED
 FEB 11 1987



1) Date: February 5, 1987
 2) Operator's Well No. Underwood No. 1
 3) API Well No. 47 095 1172
 State County 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: 755' Watershed: Big Run
 District: Centerville County: Tyler 095 Quadrangle: West Union 7.5' 670
- 6) WELL OPERATOR Chesterfield 123 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, 5000 feet
- 13) Approximate trata depths: Fresh, 551 335 feet; salt, N/A 1295 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		30'	0'	0	Kind
Fresh water	8 5/8	ERW	23	X		1300'	1300'	By Rule 15.	5
Coal									Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X		5000'	4950'	By Rule 15.	Depth set
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-095-1172

Date February 19, 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 February 19, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plate: <input checked="" type="checkbox"/>	Casing: <u>MX</u>	Fee: <u>6951</u>	WPCP: <u>MX</u>	S&E: <u>MX</u>	Other: <input type="checkbox"/>
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NOTE: Keep one copy of this permit posted at the drilling location.

Robert Johnston
 Director, Division of Oil and Gas

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

4690