

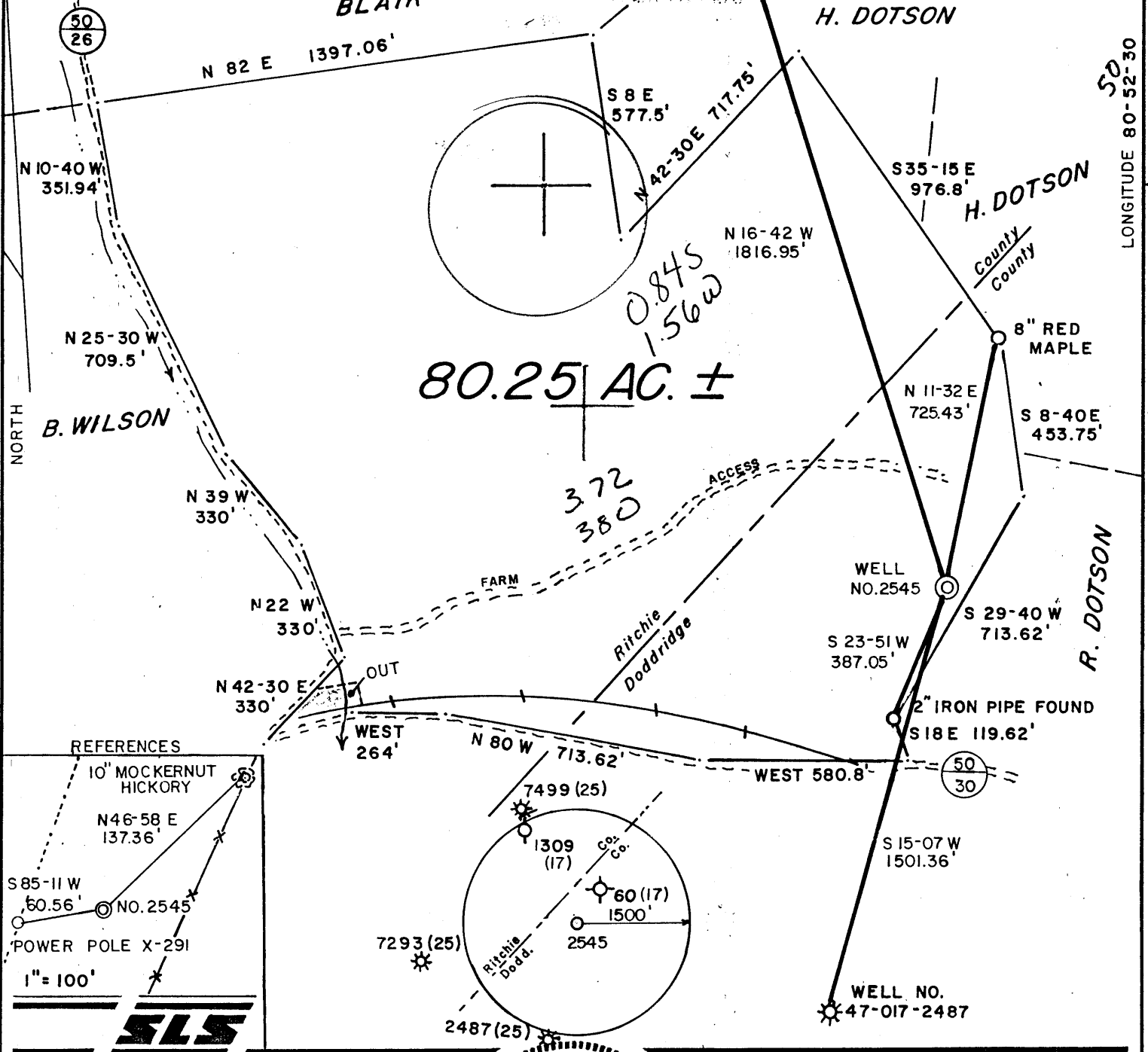
WILSON LEASE

WELL NO. 2545

BLAIR

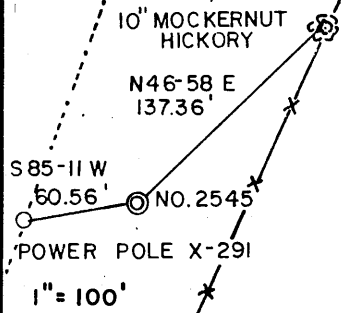
WELL NO. 47-085-7499

H. DOTSON



80.25 AC ±

REFERENCES

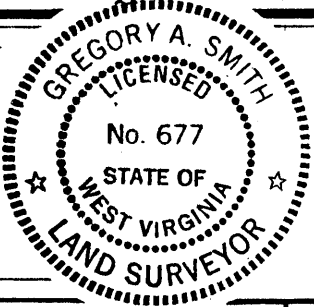


1" = 100'



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 25, 19 87

OPERATORS WELL NO. 2545

API WELL NO. 47 - 017 - 3584
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1665 21-22
 PROVEN SOURCE OF ELEVATION PERMIT NO. 7499 SCALE 1 INCH = 400 FEET
 ELEV. 1158'

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



WELL TYPE: OIL GAS LIQUID WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 950' WATERSHED YEAGER RUN COUNTY DODDRIDGE QUADRANGLE PENNSBORO 7.5539
 DISTRICT CENTRAL

SURFACE OWNER ROGER DOTSON et. al. ACREAGE 80.25 Ac.
 ROYALTY OWNER BARR & KATHLEEN WILSON et. al. LEASE ACREAGE 80.25 Ac.

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 ALEXANDER
 ESTIMATED DEPTH 5700'

WELL OPERATOR UNION DRILLING, INC. 893 DESIGNATED AGENT JOSEPH C. PETTEY
 ADDRESS P.O. DRAWER 40 BUCKHANNON, WV 26201 ADDRESS P.O. DRAWER 40 BUCKHANNON, WV 26201

LONGITUDE 80-52-30
 4490

COUNTY NAME
 PERMIT

575

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

Dowell 3 stage foam frac - 9/25/87

?

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	140	
Shale			140	177	1" stream fresh water @158'
Red Rock			177	287	
Shale			287	1253	
Red Rock			1253	1291	
Shale			1291	1338	
Red Rock			1338	1349	
Sand			1349	1401	
Red Rock			1401	1412	
Shale			1412	1718	1 1/2" stream salt water @1505'
Blue Monday			1718	1780	
Big Lime			1780	1900	
Injun			1900	1953	
Upper Weir			2154	2210	
Lower Weir			2234	2274	
Riley			4401	4450	
Benson			4488	4498	
✓ Alexander			5064	5108	
				5315' TD	Gas Check @TD 50/10ths thru 2" w/w = 298 mcf

RECEIVED
OCT 05 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Union Drilling, Inc.
Well Operator
By: Douglas P. Terry
Date: Douglas P. Terry, Operations Manager

10/2/87

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 ..., encountered in the drilling of a well."



RECEIVED
AUG 14 1987

1) Date: August 12, 19 87
2) Operator's Well No. 2545
3) API Well No. 47 State 017 County 3584 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: 950 Watershed: Yeager Run District: Central County: Doddridge 017 Quadrangle: Pennsboro 538
- 6) WELL OPERATOR Union Drilling, Inc. CODE: 50550 7) DESIGNATED AGENT Joseph C. Pettey
Address Post Office Drawer 40 Buckhannon, WV 26201 Address Post Office Drawer 40 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Mike Underwood Address Route 2, Box 135 Salem, WV 26426
- 9) DRILLING CONTRACTOR: Name Union Drilling, Inc. Address Post Office Drawer 40 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, Alexander
- 12) Estimated depth of completed well, 5775 feet
- 13) Approximate trata depths: Fresh, 250, 1055 feet; salt, 1340 feet.
- 14) Approximate coal seam depths: 544 Is coal being mined in the area? Yes / No
- 15) CASING AND TUBING PROGRAM From Rit-1309 & Dodd 2487

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		20	20 XXX		Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8	ERW	23	X		1100	1100	to surface	By 38CSR 18-11.3
Production	4 1/2	J-55	10.5	X		5775	5775	as required	By 38CSR 18-11.1
Tubing									
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3584 Date August 31, 19 87

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 August 31, 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"/>	Plat: <input checked="" type="checkbox"/>	Casing: <input checked="" type="checkbox"/>	Fee: 2000 9274	WPCB: <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

10641