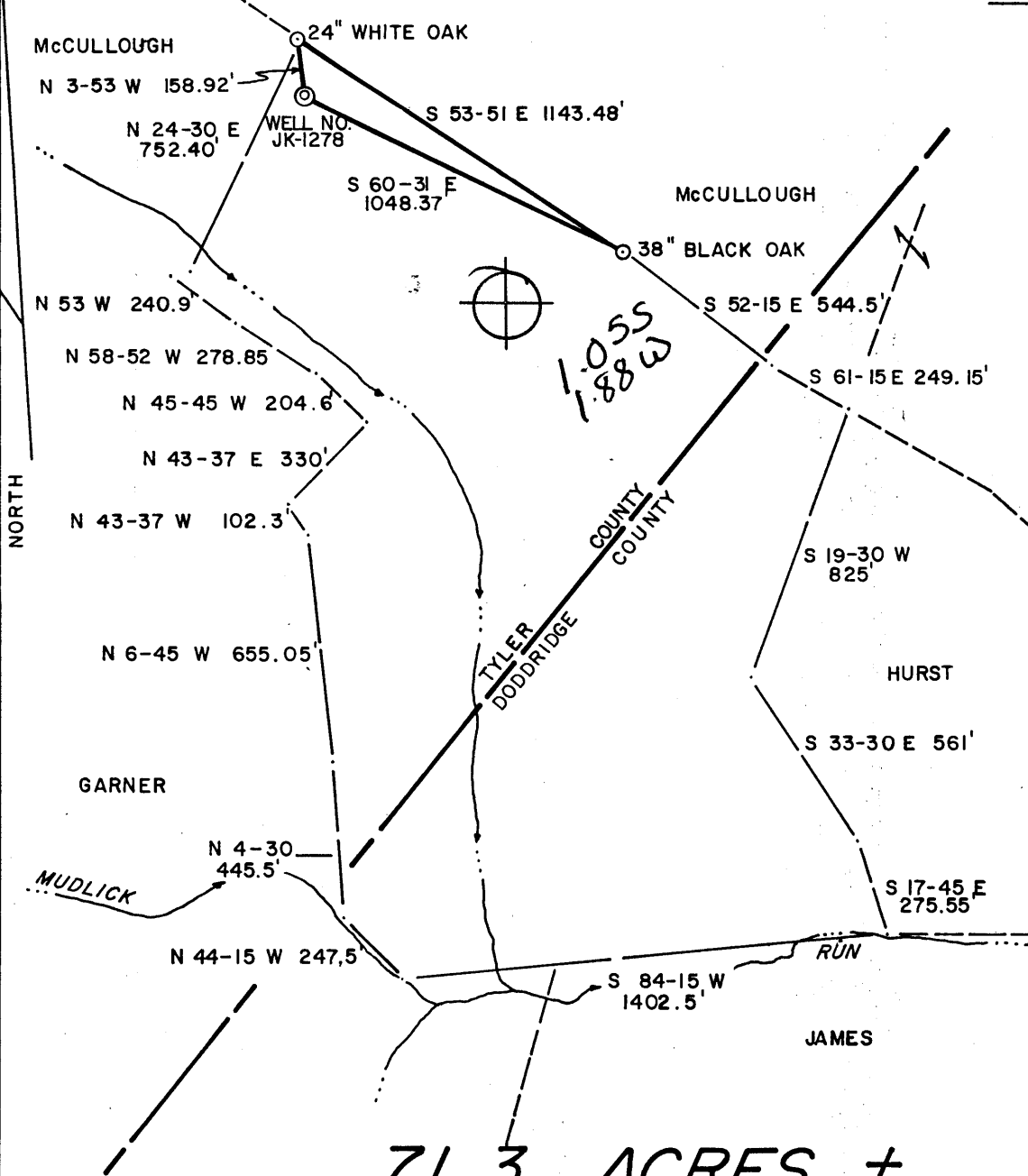
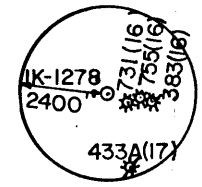


VICTORIA SMITH HEIRS

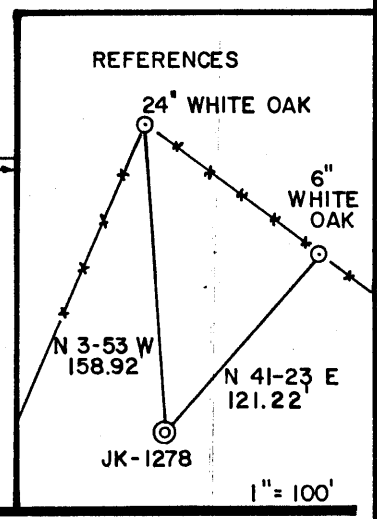


1.055
1.88W



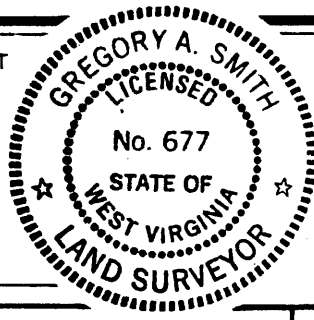
JK-1278

71.3 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 JUNE 18, 1986
OPERATORS WELL NO. JK-1278
API WELL NO. 47-095-1131
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 19-35 1487
PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. 1165' 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 1128' WATERSHED MUDLICK RUN
DISTRICT CENTERVILLE 1 COUNTY TYLER QUADRANGLE WEST UNION 75'671

SURFACE OWNER N. GLEE SMITH et. al. ACREAGE 71.3 133
ROYALTY OWNER N. GLEE SMITH et. al. LEASE ACREAGE 71.3 SC8

PROPOSED WORK: LEASE NO. JJ-1921
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 RHINE STREET
ESTIMATED DEPTH 5995' 30 1986

WELL OPERATOR J & J ENTERPRISES, INC. 427 DESIGNATED AGENT RICHARD M. REDDECLIFF
ADDRESS P.O. BOX 48 BUCKHANNON, WV. 26201 ADDRESS P.O. BOX 48 BUCKHANNON, WV. 26201

00 05 08 EADU11GNOT 0655 - 1

COUNTY NAME PERMIT



State of West Virginia
Department of Mines
Oil and Gas Division

Date October 2, 1986
Operator's 2469 - JK1278
Well No. _____
Farm H. Glee Smith #1
API No. 47 - 095 - 1131

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 xx /)

LOCATION: Elevation: 1128' Watershed Mudlick Run
District: Centerville County Tyler Quadrangle West Union

COMPANY Union Drilling, Inc.
ADDRESS P.O. Drawer 40, Buckhannon, WV 26201
DESIGNATED AGENT Joseph C. Pettey
ADDRESS P.O. Drawer 40, Buckhannon, WV 26201
SURFACE OWNER Victoria Smith Heirs
ADDRESS P.O. Box 266, Nutter Fort, WV 26301
MINERAL RIGHTS OWNER Same as Surface
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK _____
Robert Lowther ADDRESS Gen. Del., Middleborne, WV 26149
PERMIT ISSUED 6/19/86
DRILLING COMMENCED 7/7/86
DRILLING COMPLETED 7/11/86

Casing & Tubing	Used in Drilling	Left in Well	Current fill up Cu. ft.
Size 20-16 Cord.			
13-10"	20.00'	pulled	
9 5/8			
8 5/8	1285.50'	1285.50'	348 cf
7			
5 1/2			
4 1/2		5351.40'	528 cf
3			
2 3/8" tubing		4602.70'	
Liners used			

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

GEOLOGICAL TARGET FORMATION Rhine Street Depth 5995' feet
Depth of completed well 5400' feet Rotary xxx / Cable Tools _____
Water strata depth: Fresh 215' 565feet; Salt _____ feet
Coal seam depths: 745/748 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Riley, Benson, Alexander Pay zone depth 5276' feet
Gas: Initial open flow 25 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 1106 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 2 hours
Static rock pressure _____ psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after 007 20 1986 hours shut in

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

7/22/86 - 2 stage frac - Halliburton

Benson - 4979/83 - 30,000# sand, 38,800 scf nitrogen and 305 bbls water
 Alexander - 5264/76 - 25,000# sand, 45,600 scf nitrogen and 290 bbls water

8/20/86 - 1 stage frac - Halliburton

Riley - 4575/81 - 50,000# sand, 631,000 scf nitrogen and 710 bbls water
 4586/88
 4601/06

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 & Shale			0	745	hole damp @215'
Coal			745	748	hole damp @565'
Sand & Shale			748	1980	
Big Lime			1980	2058	
Injun			2058	2154	
Riley			4559	4620	
Benson			4978	4984	
Alexander			5256	5294	
				5400' T.D.	Gas check @5400' 6/10ths thru 1" w/w = 25 mcf

(Attach separate sheets as necessary)

Union Drilling, Inc.

Well Operator

By:

Joseph C. Pettey

Date: Joseph C. Pettey, Vice President of Production

10/2/86

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."



1) Date: JUNE 17 1986
 2) Operator's Well No. JK-1278
 3) API Well No. 47-095-1131

RECEIVED
 JUN 19 1986

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

DIVISION OF OIL & GAS
DEPT. OF ENERGY

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage)
- 5) LOCATION: Elevation: 1128' Watershed: _____
 District: CENTERVILLE 427 County: TYLER Quadrangle: WEST UNION 7.5'
- 6) WELL OPERATOR J&J ENTERPRISES CODE: 24150 7) DESIGNATED AGENT RICHARD REDDECLIFF
 Address P.O. BOX 48 Address P.O. BOX 48
BUCKHANNON, WV 26201 BUCKHANNON, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name ROBERT LOWTHER
 Address GENERAL DELIVERY
MIDDLEBOURNE, WV 26149
- 9) DRILLING CONTRACTOR: Name S.W. JACK DRILLING CO.
 Address P.O. BOX 48
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, RHINE STREET 441
- 12) Estimated depth of completed well, 5995' feet
- 13) Approximate trata depths: Fresh, 130' 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		
Conductor	11 3/4	H-40	42	X		300 30	300 0	TO SURFACE
Fresh water	8 5/8	ERW	23	X		1275 1228	1728 1728	Per Rule 15.05
Coal	8 5/8	ERW	23	X		1728	1728	Sizes
Intermediate								
Production	4 1/2	J-55	10 1/2	X		5995'	5945'	AS REQUIRED BY RULE 15.01
Tubing								
Lin.								Perforations: Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-095-1131

June 19 1986
 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 June 19, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>ALB</u>	Plat: <u>AS</u>	Casing: <u>AS</u>	Fee: <u>2132</u> <u>122</u>	WPCP: <u>AS</u>	S&E: <u>AS</u>	Other: _____
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NOTE: Keep one copy of this permit posted at the drilling location.

John L. Johnston
 Director, Division of Oil and Gas

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

File