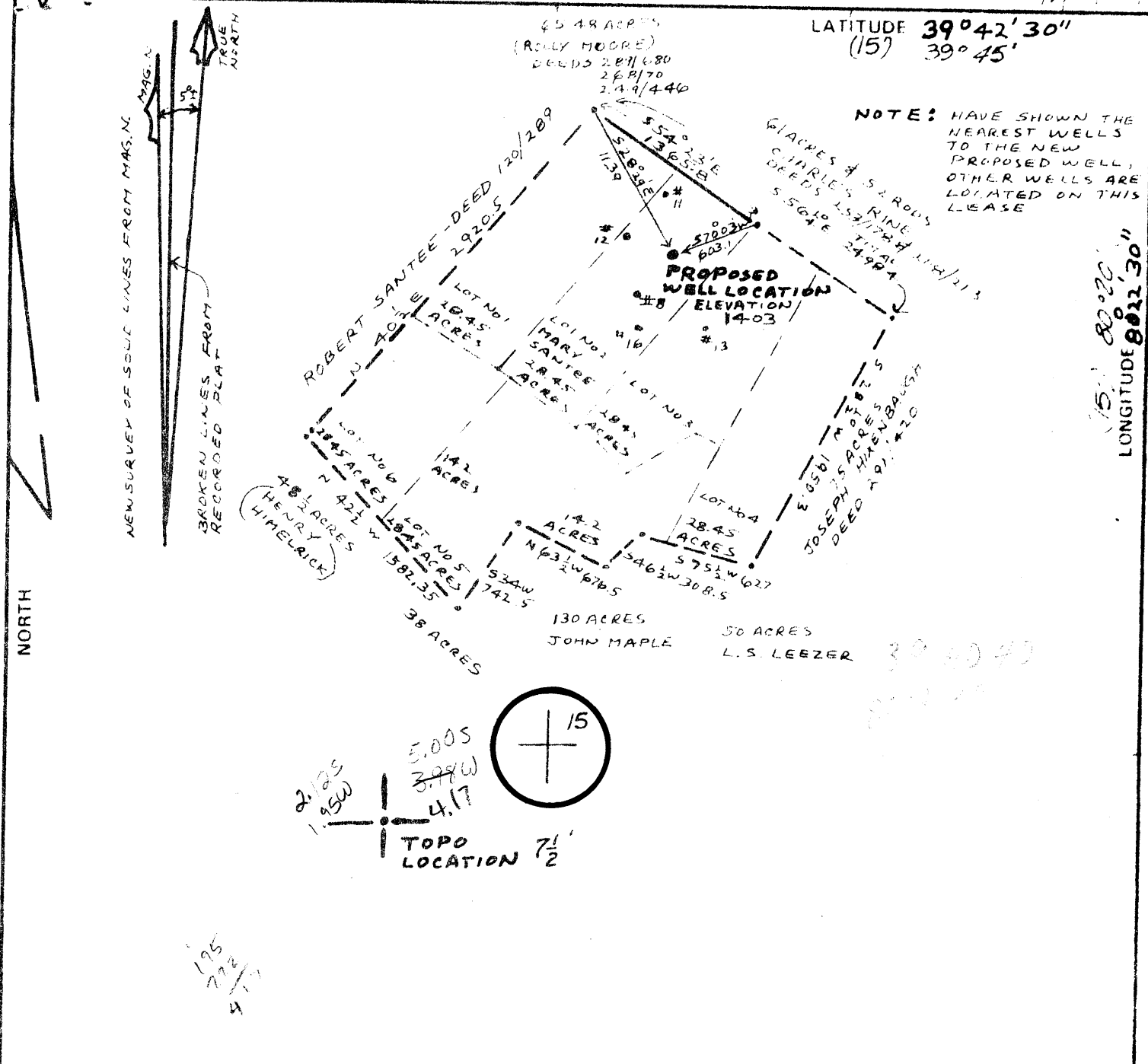


11/11/79



FILE NO. 79-5442
 DRAWING NO. 79-5442-A
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 2500
 PROVEN SOURCE OF ELEVATION 1053 B.M. ON CHURCH FORK ON HUNDRED TOPO MAP

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 MINES
 (SIGNED) Henry M. Parsons
 R.P.E. _____ L.L.S. 98

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE NOV 24, 19 79
 OPERATOR'S WELL NO. SANTEE #19
 API WELL NO. 47 103 - 1174
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1403 WATER SHED LITTLE RUSH RUN
 DISTRICT CHURCH COUNTY WETZEL
 QUADRANGLE HUNDRED MANNINGTON 15 PAULINE HIXENBAUGH
 SURFACE OWNER MARY SANTEE (28.45 ACRES) ACREAGE 171 ACRES LEASE
 OIL & GAS ROYALTY OWNER CHARLES SANTEE HRS. LEASE ACREAGE 171
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION GORDON ESTIMATED DEPTH 3500'
 WELL OPERATOR BARRON KNOX DESIGNATED AGENT FRANK GILMORE
 ADDRESS SUITE 500 TWO TURTLE CR. VILLAGE DALLAS TX 75219 ADDRESS 112 VIRGINIA ST. SISTERSVILLE WV 26175

3-63 BURTON



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Mannington

Permit No. 47-103-1174

Rotary _____ Oil _____
Cable X Gas X
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company Barron Kidd
Address Suite 500, Two Turtle Ck. Village
Farm Charles Santee Heirs Acres 171
Location (waters) Little Rush Run
Well No. 19 Elev. 1403
District Church County Wetzel

The surface of tract is owned in fee by Pauline Hixenbaugh

Address Burton, W.VA 26582

Mineral rights are owned by J.W. Santee Heirs
c/o Robert J. Santee
Address Star Rte. Hundred, W.VA

Drilling Commenced April 7, 1980 26575

Drilling Completed August 8, 1980

Initial open flow 40M cu. ft. 3/4 bbls.

Final production 150 M cu. ft. per day 0 bbls.

Well open 6 hrs. before test 525 RP.

Well treatment details:

Attach copy of cementing record.

2/22/80; Perf. Fifth Sand @ 3418-3430; Frac. w/600 Bbl. water, 50 M#/20-40 Sand
1/10-17/81; Squeeze cement lower perfs; re-perf in Fourth Sd @ 3363'-75'.
Frac w/450 bbl. water and 30M lbs. 20-40 sand, on 12/9/80.
plug back: set Baker plug @ 2900' in 4 1/2"; cut off 4 1/2" @ 2697' and pull.
Basin set plug in 7" @ 2604'; Perf 7" @ 2472-2480' and acidize on 5/21/81 w/2M
gal. of 15% HCL. (All treatments by Halliburton/Weston)

Coal was encountered at 838'-842' and 1185'-1192' inches

Fresh water _____ Feet Salt Water _____ Feet

Producing Sand Big Injun (Greenbrier) Depth Perforations @ 2472-80'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Surface Red Rock			0	19		Formation Record taken from Drillers Log Book.
Shale and Shells			19	297		
Shale, Gray			297	326		Nuclear/Electric Logs were also run as noted below: Gearhart @ 2702 on 6/23/80 " @ 3466 on 8/25/80 Schlumb. @ 3769 on 8/8/80 Basin Surv. 3377' on 11/17/80 @ 3000' in May, '81. All perforated completion depths are from current Nuclear logs.
Shale, Red			326	335		
Sand, Gray			335	345		
Shale and Shells			345	495		
Shale, Red			495	504		
Shale & Shells			504	554		
Shale & Red Rock			554	600		
Shale, Gray			600	737		
Sand,			735	765		
Shale			765	818		
Sand			818	838		
coal			838	842		
Shale			842	989		
Red Rock			989	1025		
Shale and Shells			1025	1088		
Coal			1088	1092		
Lime			1091	1174		
Shale & Shells			1175	1185		
Coal			1185	1192		
Slate & Shells (Hard)			1192	1260	Pittsburgh Coal	
Red Rock			1260	1288	Limy	

MAR 01 1982

QC-10
Rev.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water
Slate & Shells w/Red Rock			1288	1390	Bad Cave
Limey Shells			1390	1435	
Red Rock			1435	1450	Little Dunkard Sand
Lime			1450	1495	
Shale & Limy Shells			1495	1581	
Sand (Hard)			1581	1630	
Slate, Dark			1630	1660	
Sand and Lime (Hard)			1660	1725	
Slate & Shells			1725	1780	
Sandstone (Hard)			1780	1920	
Shale & Shells			1920	1995	
Sand			1995	2070	
Slate & Shells			2070	2137	Show oil-Started Coring Oil-Cut 3½" Rotary Core Greenbrier Lime Gas @2470-80'; 100 MCFD Oil Shows @2575'; 2604-13' Limy Shells Interbedded with Shale
Sand & Lime			2137	2189	
Slate & Red Rock			2189	2295	
Sandstone (Maxton Sand)			2295	2330	
" (cored) "			2330	2382	
Limestone			2382	2469	
Sand, Dolomitic (Big Injun)			2469	2528	
Sandstone, Big Injun			2528	2675	
Slate & Shells			2675	2761	
Lime and Sandstone			2761	2873	
Shale			2873	3002	
Sandy Shale			3002	3038	
Slate			3038	3057	
Shale, Sandy			3057	3138	
Sand			3138	3189	
Sandy Shale			3189	3203	
Sand			3203	3230	
Shale			3230	3237	
Sand, "Gordon Stray"			3237	3257	Trace/Oil @3257
Shale			3257	3270	Gritty Lime, 3277'-3299'
Sand, "Gordon" (Hard)			3270	3305	
Shale			3305	3325	Approx. 1 BOPD@3372'-3380'
Sand, "Fourth" (Hard@3340-55')			3325	3390	
Shale & Sand Stringers			3390	3410	Show/Gas, 3429-34' (30 MCFD)
Sand, "Fifth"			3410	3448	
Slate			3448	3470	Total Depth Drilled
Slate & Lime Shells			3470	3800	
Plug-Back Total Depth				2604	

Plug set in 7" @ 2604' for
Completion in Big Injun Sand.
Plug in 4½" @ 2900'
4½" cut @ 2697' and removed
from well.

3800
2450

1350

3800
2382

1418 expl. fl.

→ Date July 28, 19 81
BARRON KIDD
→ APPROVED by: Emory T. Corbett, Agent & Atty-in-fa

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. 19
API Well No. 47-103-Wetzel-1174
State County Perm

WELL TYPE: Oil X / GAS
(If "Gas", Production ___ / Underground storage ___ / Deep ___ / Shallow ___ /)
LOCATION: Elevation: 1403' Watershed: Little Rush Run
District: Church County: Wetzel Quadrangle: Mannington

WELL OPERATOR Barron Kidd
Address Suite 500, Two Turtle Creek Village
Dallas, TX 75219

DESIGNATED AGENT Frank Gilmore
Address 112 Virginia Street
Sistersville, WV 26175

OIL & GAS ROYALTY OWNER Charles Santee Heirs
Address c/o Robert J. Santee
Star Route
Hundred, WV 26575
Acreage 171

COAL OPERATOR None
Address Coal is not being operated

SURFACE OWNER Pauline Hixenbaugh
Address Burton, WV 26582
Acreage _____

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Wheeling Dollar Savings Bank
Address Trust Account
Bank Plaza
Wheeling, WV 26003

FIELD SALE (IF MADE) TO:
Name _____
Address _____

Name _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name None - coal is not being operated
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Phillip L. Tracy
Address P. O. Box 173
Middlebourne, WV 26149
Tele: 304/758-4573

RECORDED
OCT 17 1979

OIL & GAS DIVISION
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease X / other contract ___ / dated Sept. 17, 1979, to the undersigned well operator from Robert J. Santee, et al, Star Route, Hundred, WV 26575
[If said deed, lease, or other contract has been recorded:]

Recorded on Oct. 12, 1979, in the office of the Clerk of the County Commission of Wetzel County, West Virginia, in Deed Book 58A at page 613. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper ___ / Redrill ___ / Fracture or stimulate ___ /
Plug off old formation ___ / Perforate new formation ___ /
Other physical change in well (specify) _____

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311

BARRON KIDD
Well Operator
By Emory T. Corbett
Its Agent & Attorney-in-Fact

BLANKET ROWS

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Chisler & Son
Address Fairview,
West Virginia

GEOLOGICAL TARGET FORMATION, Gordon

Estimated depth of completed well, 3500 feet Rotary / Cable tools /

Approximate water strata depths: Fresh, 150 feet; salt, feet.

Approximate coal seam depths: 950 Is coal being mined in the area? Yes / No

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKG.
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor	12-3/8	K55	48.0		x	x		Kinds
Fresh water	10-3/4	J55	40.5		x	160	x	
Coal	8-5/8	K55	24.0	x		1000	x	40 sax Sizes <u>CTS</u>
Intermediate	6-5/8	J55	20.0		x	x		
Production	4-1/2	J55	9.5	x		3500	x	50 sax Depths set
Tubing	2"			x			x	
Liners								Perforations: Top Bottom

NOTE - Regulations 7.02 of the Department of Mines provides that the original and four copies of Form must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well **THIS PERMIT MUST BE POSTED AT THE WELL SITE** if such is a part of the work for which a permit is sought and is noted on the Form IV-2 filed in connection therewith.

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 8-31-80.

Robert L. [Signature]

Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: , 19

By
Its