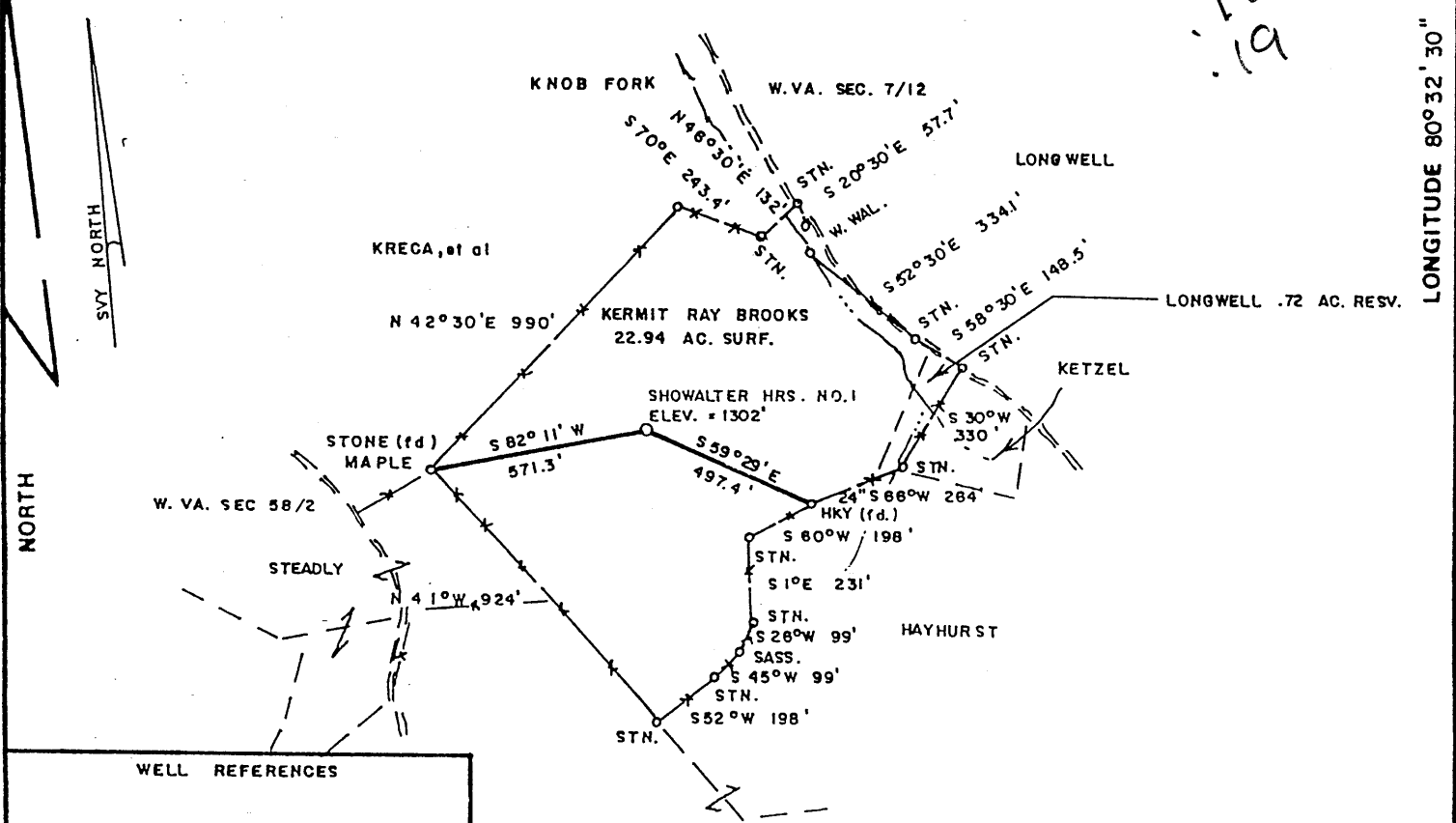


SHOWALTER HEIRS LEASE 23.5 AC.

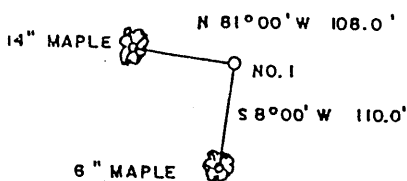
LATITUDE 39° 37' 30"

7.5' topo. loc.

18
19



WELL REFERENCES



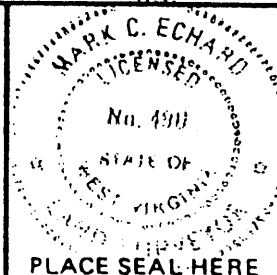
1" = 200'

NOTE: NO WELLS SHOWN WITHIN 2400'

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION JCT. OF ROADS
 S. OF LEASE ELEV. = 1550'

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.

Mark C. Echard
 (SIGNED) MARK C. ECHARD
 R.P.E. _____ L.L.S. 490



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

FORM IV-6 (8-78)



DATE MAY 1 2000
 OPERATOR'S WELL NO. SHOWALTER NO. 1
 API WELL NO. _____
 47 - 103 - 01803
 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 1302' WATER SHED KNOB FORK
 DISTRICT CENTER COUNTY WETZEL

QUADRANGLE BIG RUN 7.5'
 SURFACE OWNER KERMIT RAY BROOKS ACREAGE 22.94
 OIL & GAS ROYALTY OWNER KERMIT RAY BROOKS LEASE ACREAGE 23.5

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) 6-6 45

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION SPEECHLEY ESTIMATED DEPTH 3900'
 WELL OPERATOR D.A.C. DESIGNATED AGENT KENNETH MASON
 ADDRESS P.O. BOX 99 ADDRESS P.O. BOX 99
 ALMA, WV 26320 -0099 ALMA, WV 26320 -0099

MAY 19 2000

BIAS BLUEPRINT Huntington, W.V. 579536

WET 1803

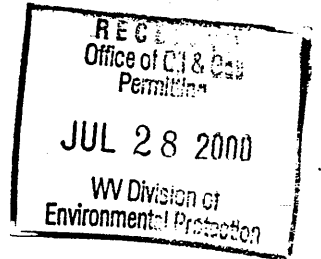
LONGITUDE 80° 08' 10"

S 006

WR-35

API# -47-103-01803

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas



Well Operator's Report of Well Work

Farm Name: Brooks Operators Well No.: Showalter #1
Location: Elevation: 1302' Quadrangle: Big Run 7.5'
District: Grant County: Wetzell
Latitude: 800 Feet South of 39 Deg. 37 min. 30sec.
Longitude: 1000 Feet West of 80 Deg. 30 min. 00sec.

Company: D.A.C.
P. O. 99 casing used in left cement
Alma WV 26320 tubing drilling in well fill up sks

Agent: Kenneth Mason
Inspector: Randall Mick
Permit Issued: 05/16/00
Well Work Commenced: 06/23/00
Well Work Completed: 06/30/00
Rotary X Cable _____ Rig
Total Depth (feet) 3334'
Fresh Water Depths (ft) 1940'
Salt Water Depths (ft) N/A
Is coal being mined in area (Y/N) N
Coal Depths (ft): 1429'

OPEN FLOW DATA

Producing formation 4th Pay zone depth (ft) 3200-3212
Gas: Initial open flow 1stm MCF/D Oil: Initial open flow 0 BBL/D
Final open flow 450 MCF/D Final open Flow show BBL/D
Static Rock Pressure _____ psig (surface pressure) after 48 Hours

Second producing formation Big Injun Pay zone depth (ft) 2426-2432
Gas: Initial open flow 900,000 MCF/D Oil: Initial open flow 0 BBL/D
Final open flow * MCF/D Final open flow 0 BBL/D
static rock pressure * psig (surface pressure) after * Hours

* = commingled zones

For: D.A.C.
By: Kenneth R. Mason

Date: 07-20-00

WET 1803

AUG 11 2000

Stage	Formation	Perfs	Sand	N2
07-10-00	Showalter #1			
1	4th, 5th	3156-3237 16 holes	150 sks	242,000 scf
2	Big Injun	2375-2491 18 holes	250 sks	244,000 scf

ISIP = 2400#
5 min = 2021#

Drillers Log

Formation	Top	Bottom	
Fill	0	10	
Sd/Sh	10	110	
Sd	110	122	
Sd/Sh	122	172	damp @ 55'
RR	172	187	
Sd/Sh	187	1429	
Coal	1429	1435	1 1/2" strm @ 1940
Sd/Sh	1435	1792	
Sd	1792	1870	
Sd/Sh	1870	1910	
Sd	1910	2090	
Sd/Sh	2090	2110	
Sd/Sh	2110	2270	
BL	2270	2340	
Sd	2340	2542	
Sh	2542	3034	
Sd	3034	3055	
Sh	3055	3140	gas ck @ 2570 = 900,000 mcf
Sd	3140	3165	
Sh	3165	3334	
Td	3334		gas ck @ Td = 900,000 mcf

Electric Log Tops

Formation	Depth top
Big Lime	2281
Big Injun	2350
Berea	2623
Gordon	3094
4th	3200