

3-31-82

Plot. Cap. CSD 8900

1200
81° 20'

SURFACE OWNERS

A = CHESTER TAYLOR 2 AC.

B = ROY D. LUPARDUS 2 AC.

C = " " " 3 AC.

D = HOBERT S. RANDOLPH 1.25 AC.

E = WALTER A. COUNTS 1 AC.

F = GILLIS BLACKWELL 16 AC. D.B.182 PG.343

G = MILES E. DAVIS 13.5 AC. D.B.186 PG.107

LATITUDE 38° 42' 30"

38° 45'



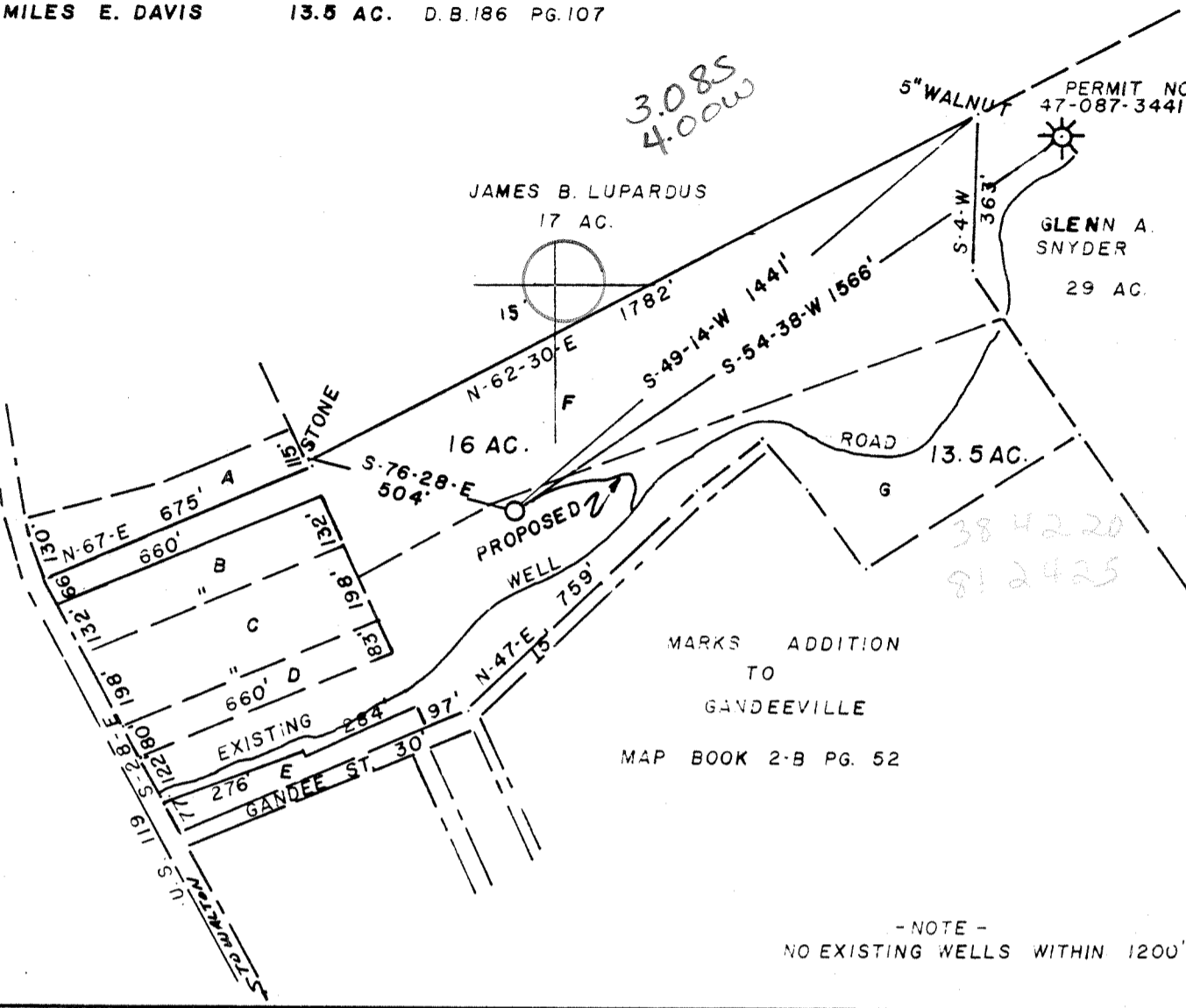
3.085
4.00w

5" WALNUT PERMIT NO. 47-087-3441

JAMES B. LUPARDUS 17 AC.

GLENN A. SNYDER 29 AC.

NORTH



MARKS ADDITION TO GANDEEVILLE
MAP BOOK 2-B PG. 52

- NOTE -
NO EXISTING WELLS WITHIN 1200'

FILE NO. _____

DRAWING NO. _____

SCALE 1" = 400'

MINIMUM DEGREE OF ACCURACY 1 IN 200

PROVEN SOURCE OF ELEVATION BRIDGE ON SEC. 15 AT GANDEEVILLE. EL = 797

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) William A. Roberts

R.P.E. _____ L.L.S. # 714

PLACE SEAL HERE

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

FORM IV-6 (8-78)



DATE _____, 19____

OPERATOR'S WELL NO. _____

API WELL NO. _____

47 - 087 - 3566

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 917.0 WATER SHED BIG LICK RUN

DISTRICT WALTON COUNTY ROANE

QUADRANGLE WALTON 7.5' 015' NC

SURFACE OWNER MILES E. DAVIS & GILLIS BLACKWELL ACREAGE 13.5 + 16 = 29.5

OIL & GAS ROYALTY OWNER MILES E. DAVIS et al LEASE ACREAGE 29.5

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) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____

TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5900'

WELL OPERATOR ARABIE, INC. DESIGNATED AGENT PETROLEUM SERVICES, INC.

ADDRESS 62 SUNDOWN PARKWAY ADDRESS P.O. BOX 4081

AUSTIN, TEXAS. PARKERSBURG, W.V. 26101

APR 16 1982

H T HALL

Map 16-6 unnumbered - Gandeeville (371)

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

78]

TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow ___ /
LOCATION: Elevation: 917 GL Watershed: Big Lick Run
District: Walton County: Roane Quadrangle: Walton 7.5
WELL OPERATOR Arabie, Inc. DESIGNATED AGENT John Cushing
ADDRESS 62 Sundown Parkway ADDRESS P. O. Box 4081
Austin, TX 78746 Parkersburg, WV 26101
PERMITTED WORK: Drill X / Convert ___ / Drill deeper ___ / Redrill ___ / Fracture or stimulate ___ /
Plug off old formation ___ / Perforate new formation ___ /
Other physical change in well (specify) _____

PERMIT ISSUED ON March 29, 19 82 OIL & GAS INSPECTOR FOR THIS WORK:
(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED _____, 19 _____)
Name Richard J. Morris
Address Box 372
Grantsville, WV 26147

GEOLOGICAL TARGET FORMATION: Devonian Shale Depth 5050 feet
Depth of completed well, 5050 feet Rotary X / Cable tools ___ /
Water strata depth: Fresh, 80 feet; salt, N/A feet.
Coal seam depths: N/A Is coal being mined in the area? No
Work was commenced 6-22, 19 82, and completed 7-3, 19 82

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	CW	42	X		160	160	70 sks Kinds Neat
Fresh water								
Coal								Sizes
Intermediate	8 5/8	SML	24	X		2292	2292	450 sks Pozmix & Neat
Production	4 1/2	SML	11.5	X			5028	480 sks Pozmix Deaths set
Tubing	1 1/2	SML		X			4603	
Liners								Perf: Top 3438 Bottom 4994

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3438-4994 feet
Gas: Initial open flow, Show MCF/D Oil: Initial open flow, _____ BBL/D
Final open flow, 1,510 MCF/D Final open flow, _____ BBL/D
Time of open flow between initial and final tests, 4 hours
Static rock pressure, 975 psig (surface measurement) after 60 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 Final open flow, _____ BBL/D
Time of open flow between initial and final tests, _____ hours
Static rock pressure, _____ psig (surface measurement) after _____ hours shut in

3440-3918
4019-4434
4497-4994
perfs

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

1st Stage - 30 Holes - 4497 - 4994 60,000# Sand 754,000SCF N₂ *Huron to ~ Ja*
 2nd Stage - 32 Holes - 4019 - 4434 60,000# Sand 780,000SCF N₂ *Huron*
 3rd Stage - 24 Holes - 3440 - 3918 60,000# Sand 780,000SCF N₂ *u. Dev. to u. Huron*

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOIIM FEET	REMARKS Including indication of all fresh & salt water, coal, oil gas
Salt Sand	White	Hard	1773	2010	
Maxon	White	Hard	2012	2072	
Big Lime	White	Hard	2079	2178	
Big Injun	Brown	Hard	2178	2254	
Berea	Brown	Hard	2650	2660	
Devonian Shale	Brown	Soft	2660	5050	
TD above	<i>Rhinesbeck</i>	<i>in Java-Angola</i>		<u>5050</u>	Show Gas

(attach separate sheets to complete as necessary)

ARABIE, INC.
 WELL OPERATOR
 BY John Cushing *John Cushing*
 ITS Agent

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."



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

MAR 29 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

Gillis
Surface Owner Miles E. Davis & Blackwell
Address Gandeeville, WV
Mineral Owner Miles E. Davis, et al
Address Gandeeville, WV
Coal Owner n/a
Address n/a
Coal Operator n/a
Address n/a

DATE 3/29/82
Company ARABIE, INC.
Address 62 Sundown Parkway, Austin, TX
Farm Davis #1 Acres 13.5 + 16.0
Location (waters) Big Lick Run
Well No. Davis #1 Elevation 917.0
District Walton County Roane
Quadrangle Walton 7.5

THIS PERMIT MUST BE POSTED AT THE WELL SITE.
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE
OPERATIONS HAVE NOT COMMENCED BY 12-3-82

INSPECTOR
TO BE NOTIFIED Richard J. Morris
ADDRESS Box 372, Grantsville, WV
PHONE 304/454-7459

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated Oct. 14 1981 by Gillis Blackwell, et al made to PETROLEUM SERVICES, INC. and recorded on the 27th day of Oct. 1981 in Roane County, Book 160 Page 352

XX NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE
_____ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Very truly yours, ARABIE, INC.

(Sign Name) John Cushing
Well Operator

Address box 4081 Street _____
of _____
Well Operator Parkersburg, WV 26101
City or Town _____
State _____

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

47-087-3566 _____ PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by _____

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO XX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Gene Stalnaker, Inc. NAME PETROLEUM SERVICES, INC.
 ADDRESS Box 178, Glenville, WV 26351 ADDRESS Box 4081, Parkersburg, WV
 TELEPHONE 304/462-5701 TELEPHONE 304/428-4499
 ESTIMATED DEPTH OF COMPLETED WELL: 5900 ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Marcellus Devonian Shale
 TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
11-3/4" 11-3/4" I.D.	150'	150'	Circ. to surface
9 - 5/8			
8 - 5/8	2100'	2100	Circ. to surface
7			
5 1/2			
4 1/2		5900	600 sks.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 380 FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS n/a
 IS COAL BEING MINED IN THE AREA? n/a BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title