

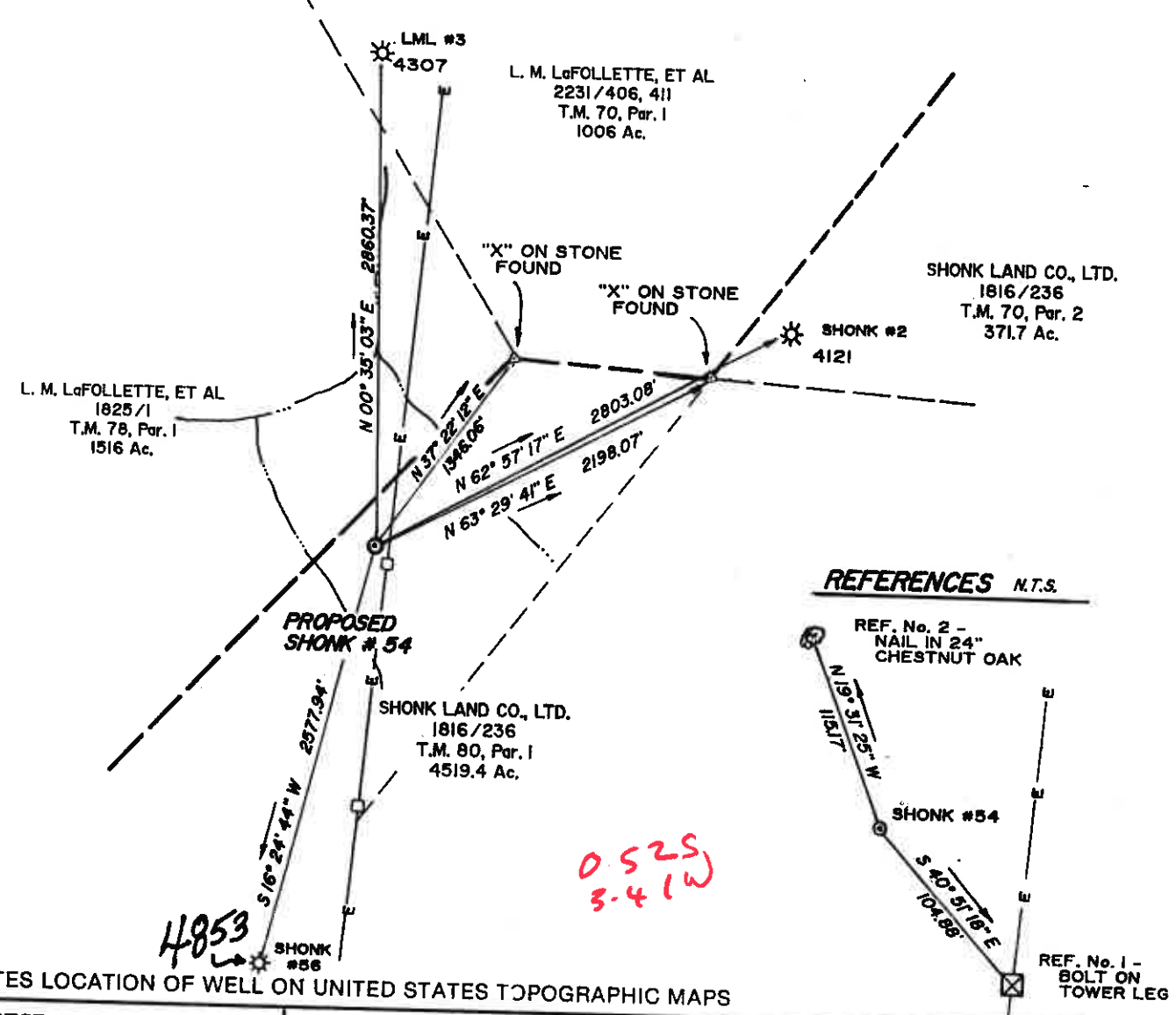
Jamie
3/12/92

LATITUDE 38° 05' 00"

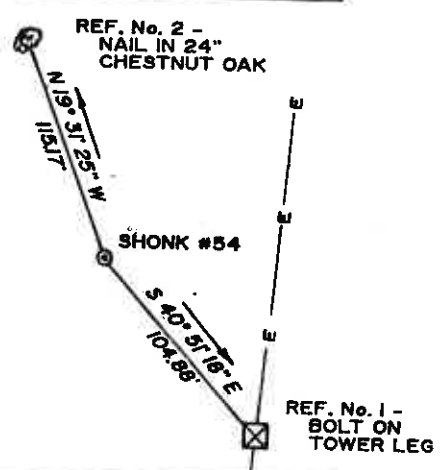
LONGITUDE 81° 27' 30"

+ 7.5' LOC.
0.52S
1.14W

NORTH



REFERENCES N.T.S.



FILE NO. 8723-205
DRAWING NO. SHONK #54
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1:2500
PROVEN SOURCE OF ELEVATION EXISTING SHONK #2
ELEV. 1177.11

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 J. Whitman RPS
R.P.E. _____ R.P.S. 646



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE JANUARY 7, 19 92
OPERATOR'S WELL NO. SHONK #54
API WELL NO. 47-039-4852
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 1600.25 WATER SHED LAUREL FORK OF COAL FK. OF CABIN CREEK
DISTRICT CABIN CREEK COUNTY KANAWHA

QUADRANGLE ESKDALE, W. VA. Mount SW
SURFACE OWNER SHONK LAND CO., LTD. ACREAGE 4519.4
OIL & GAS ROYALTY OWNER SHONK LAND CO., LTD. LEASE ACREAGE 16,000 Ac.

LEASE NO. 47-0641
PROPOSED WORK: DRILL X 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 WEIR ESTIMATED DEPTH 3200'
WELL OPERATOR CABOT OIL & GAS CORP. DESIGNATED AGENT DAVID G. McCLUSKEY
ADDRESS P. O. BOX 1473 ADDRESS P.O. BOX 1473
CHARLESTON, W. VA. 6-6 Burnwell (2122) CHARLESTON W VA

MAR 20 1992

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas
Well Operator's Report of Well Work

Farm name: SHONK LAND CO. LTD Operator Well No.: SHONK #54
Location: Elevation: 1600.25 Quadrangle: ESKDALE
District: CABIN CREEK County: KANAWHA
Latitude: 2700 FEET SOUTH OF 38 DEG. 5 MIN 0 SEC.
Longitude: 6000 FEET WEST OF 81 DEG. 27 MIN 30 SEC.

Company: CABOT OIL & GAS CORPORATION
P. O. Box 1473
Charleston, WV 25325

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	27'	27'	
9-5/8"	483.35	483.35	205 sks CL-A
7"	2187	2187	305 sks CL-A
4-1/2"	3363	3363	60 sks CL-A
1-1/2"		3201	

Agent: DAVID G. MCCLUSKEY

Inspector: Carlos W. Hively
Permit Issued: 3/20/92
Well Work Commenced: 4/25/92
Well Work Completed: 7/15/92
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 3369
Fresh water depths (ft) 800

Salt water depths (ft) 2122

Is coal being mined in area (Y/N)? Y
Coal Depths (ft): See Back

OPEN FLOW DATA

Producing formation Weir Big Lime Pay zone depth (ft) 3122-3216
Gas: Initial open flow 15 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 1.164 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 440 psig (surface pressure) after 240 Hours

Second Producing formation _____ Pay zone depth (ft) _____
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 pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: CABOT OIL & GAS CORPORATION
By: David G. McCluskey SEP 8 1992
Date: 8/24/92

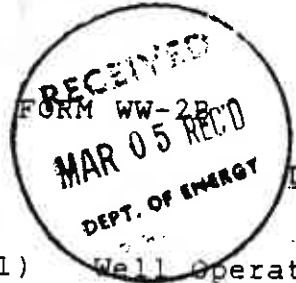
DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

PERF WEIR 3122'-3130', 3134'-3146', 3154'-3162' 3206'-3216'. BREAK DOWN STAGE 1 W/500 GAL 15% HCL. BREAKDOWN PRESSURE 1500. FRAC'D W/ 124,824 SAND IN A 75 Q FOAM. PERF BIG LIME 2891'-2896'. BREAKDOWN PRESSURE 4020. ACIDIZED W/ 1500 GAL 15% HCL.

FORMATION	TOP	BOTTOM
Sand/Shale	0	1055
Shale	1055	1180
Sand	1180	1590
Shale	1590	1650
Salt Sand	1650	1970
Shale	1970	2050
U. Maxton	2050	2272
Sand/Shale	2272	2520
L. Lime	2520	2550
P. Cave	2550	2600
Big Lime	2600	2940
Injun	2940	3065
Weir	3065	3220
Shale	3220	T.D.

COAL DEPTHS (FT)

167-171, 256-258, 375-378, 419-422, 460-463, 585-589, 593-596, 602-606, 640-642, 752-755, 774-778, 790-794, 840-844, 906-908.



039-4852
Issued 3/20/92
Expires 3/20/94
Page ___ of ___

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

- 1) Well operator: 149 CABOT OIL & GAS CORPORATION 8145 12) 340
- 2) Operator's Well Number: Shonk #54 3) Elevation: 1600.05
- 4) Well type: (a) Oil ___ / or Gas x /
(b) If Gas: Production x / Underground Storage ___ /
Deep ___ / Shallow x /
- 5) Proposed Target Formation(s): Weir 387
- 6) Proposed Total Depth: 3400 feet
- 7) * Approximate fresh water strata depths: 50', 427'
- 8) * Approximate salt water depths: 2170'
- 9) Approximate coal seam depths: 207', 284', 301', 427', 457', 648', 672', 702', 823', 846', 899', 1044', 1067'
- 10) Does land contain coal seams tributary to active mine? Yes x / No ___ /
- 11) Proposed Well Work: Drill and complete a gas well. New Well
- 12) * Based on Boone: #1044 & 996; Kan # 4121, 4307, 4333, & 4386 and Core Hole information

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	16"	Ls	65	30'	30'	3805918-11.3 10 sks GFS
Fresh Water	9-5/8"	LS	36	490'	490'	145 sks CL-A CTS
Coal	7"	J-55	20	2090'	2090'	300 sks CL-A CTS
Intermediate	4-1/2"	J-55	10.5	3400'	3400'	3805918-11.2 140 sks CL-A
Production	1-1/2"	CW55	2.75		3300'	3805918-11.1
Tubing						
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

00 395
8

Fee(s) paid: Well Work Permit Reclamation Fund WPCP

Plat WW-9 WW-2B Bond Surety Blanket Agent
(Type)

13511



- 1) Date: March 3, 1992
- 2) Operator's well number SHONK #54
- 3) API Well No: 47 - 039 - 4852
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name Shonk Land Co., Ltd.
Address Attn: Lon Shannon
P. O. Box 969, Charleston, WV 25324
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name Red Warrior Coal Co.
Address Attn: Larry Trainer
P. O. Box 190, Hansford, WV 25203
 - (b) Coal Owner(s) with Declaration
Name Shonk Land Co., Ltd.
Address Attn: Lon Shannon
P. O. Box 969, Charleston, WV 25324
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector Carlos Hively
Address 223 Pinch Ridge Road
Elkview, WV 25071
Telephone (304)-965-6069

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
x Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:

- _____ Personal Service (Affidavit attached)
- x Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator CAROL OIL & GAS CORPORATION
By: David McChesney
Its: Drilling Superintendent
Address P. O. Box 1473
Charleston, WV 25325
Telephone (304) 347-1600

Subscribed and sworn before me this 3rd day of March, 1992

Norema L. Proffitt Notary Public
My commission expires May 31, 1999