



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

FILE NO. 4652 WW

DRAWING NO. 1WW6

SCALE 1" = 300'

MINIMUM DEGREE OF ACCURACY 1 : 316,799 (GPS)

PROVEN SOURCE OF ELEVATION U.S.C.&C.S. BM "F-149"

Elev. = 644.88 NGVD '29

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 THE LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.

(SIGNED) Ronald L. Eastham

R.P.E. _____ L.L.S. 150

RONALD L. EASTHAM
LICENSED
No. 150
STATE OF WEST VIRGINIA
LAND SURVEYOR

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
NITRO, WV

DATE February 3, 1999

OPERATOR'S WELL NO. 1

API WELL NO. 47-099-02003

STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___

(IF "GAS,") PRODUCTION STORAGE ___ DEEP SHALLOW ___

LOCATION: ELEVATION 1041.30 WATER SHED Sycamore Branch of the West Fork of Twelvepole Creek

DISTRICT Butler COUNTY Wayne

QUADRANGLE Wayne

SURFACE OWNER George Holland, et ux ACREAGE 24 (T.M. 28, Par. 3.2)

OIL & GAS ROYALTY OWNER Bruce Conley Thompson, Jr., et al LEASE ACREAGE 105

LEASE NO. 47-10357

PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 6-6 353

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION Big Six ESTIMATED DEPTH 4426'

WELL OPERATOR Cabot Oil & Gas Corp. DESIGNATED AGENT John Abshire

ADDRESS P.O. Box 454 ADDRESS P.O. Box 454

Glasgow, WV 25080 Glasgow, WV 25080

DEEP WELL

FORM WW-6

COUNTY NAME WAYNE

PERMIT 2003

AUG 20 1999

VR-35

Office of Oil & Gas
Permitting

JAN 24 2000

WV Division of
Environmental Protection

Date: 17-Jan-00
API # 47-099-02003

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Reviewed K

Farm name: Holland, George Operator Well No.: Thompson #1

LOCATION: Elevation: 1,041' Quadrangle: Wayne
District: Butler County: Wayne
Latitude: 14,335 feet South of 38 DEG. 10 MIN. 0 SEC.
Longitude: 10,250 feet West of 82 DEG. 25 MIN. 0 SEC.

Company: Cabot Oil & Gas Corporation
400 Fairway Drive: Suite 400
Coraopolis, PA 15108-4308

Agent: John Abshire
Inspector: David Belcher
Permit Issued: 8/24/99
Well Work Commenced: 10/6/99
Well Work Completed: 11/5/99
Verbal Plugging
Permission granted on:
Rotary X Cable _____
Total Depth (feet) 4560'
Fresh Water Depths (ft) 229'
Salt Water Depths (ft) 1176', 1198', 1291'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill up Cu. Ft.
16"	30'	30'	
9-5/8"	702.55'	702.55'	290 sks Class "A"
7"	1857.10'	1857.10'	325 sks Class "A"
4-1/2"	4466.55'	4466.55'	120 sks latex

Is coal being mined in area (Y / N)? Y
Coal Depths (ft) _____

OPEN FLOW DATA

Producing formation Lockport Pay zone depth (ft) 4383' - 4395'
Gas: Initial open flow 84 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 103 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock pressure 1000 psig (surface pressure after _____ 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: Ray Prudnick, Jr.
Date: 1/17/00

FEB 18 2000

MAY 2003

OPEN FLOW DATA

Perf'd Lockport from 4383'-4395'. Broke down with 250 gals 15% HCl acid @ 2830 psi. ISIP 2460 psi. Treated with 60 bbl 15% HCl, 24 bbl gel water, 60 bbl 15% HCl, 24 bbl gel water, and 60 bbl 15% HCl. Flushed with 70 bbl water. Ran 600 scf N₂ per minute. MTP: 2500 psi. ATP: 2140 psi. ATR: 4 bpm. ISIP: 1870 psi.

FORMATION	TOP	BOTTOM	REMARKS
Salt Sand	0	730	
Silt/Shale	730	1078	
Salt Sand	1078	1422	
Silt/Shale	1422	1530	
Big Lime	1530	1690	
Shale	1690	1775	
Injun	1775	1802	
Shale	1802	2300	
Berea	2300	2316	
Devonian Shale	2316	3538	
Limestone	3538	3775	
Dolomite	3775	4380	
Lockport	4380	4398	
Big Six	4398	4452	
Shale	4452	4560 - TD	