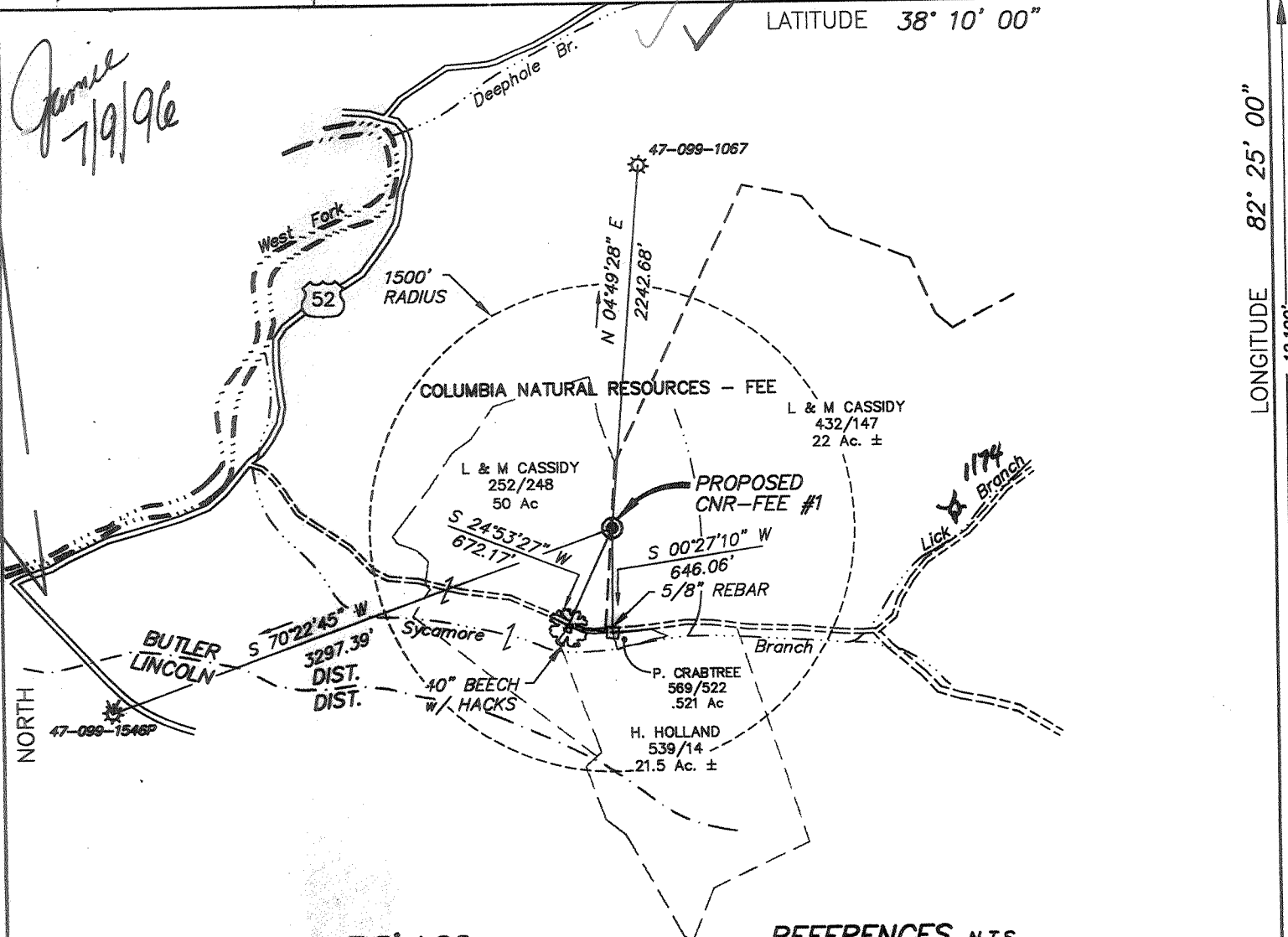


Janice 7/9/96

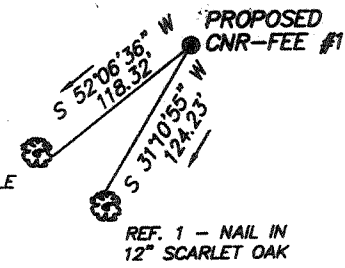
LATITUDE 38° 10' 00"

LONGITUDE 82° 25' 00"



7.5' LOC.
2315
2240

REFERENCES N.T.S.



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

FILE No 8723-476
 DRAWING No. CNR-FEE #1
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 : 2500
 PROVEN SOURCE OF ELEVATION SPOT ELEV. ON TOP OF KNOB EL. 1155

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. Whittman*
 R.P.E. _____ R.P.S. 646



PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE MAY 21 19 96
 OPERATOR'S WELL No. CNR-FEE #1
 API WELL No. 47 099-01894

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ STATE COUNTY PERMIT
 (IF "GAS") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 955.74 WATER SHED SYCAMORE BRANCH OF WEST FORK OF TWELVE POLE CREEK
 DISTRICT BUTLER COUNTY WAYNE
 QUADRANGLE WAYNE, W. VA.

SURFACE OWNER LEONARD CASSIDY ACREAGE 22
 OIL & GAS ROYALTY OWNER CNR LEASE ACREAGE _____

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 Big Six ESTIMATED DEPTH 4125'
 WELL OPERATOR CABOT OIL & GAS CORP. DESIGNATED AGENT DAVID McCLUSKEY
 ADDRESS P.O. BOX 1473 ADDRESS P.O. BOX 1473
CHARLESTON, W. VA. CHARLESTON, W. VA.

FORM IV-6 (8-78)

DEEP WELL

6-6 353

JUL 17 1996

RECEIVED
DIVISION OF ENVIRONMENTAL PROTECTION

JAN 6 1997

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

Well Operator's Report of Well Work

Farm name: Cassidy, Leonard Operator Well No.: CNR Fee #1

LOCATION: Elevation: 955.74 Quadrangle: Wayne

District: Butler County: Wayne

Latitude: 12100 Feet South of 38 Deg. 10 Min. 0 Sec.

Longitude: 11850 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 W. Abshire

Inspector: Richard Campbell
Permit Issued: 07/09/96
Well Work Commenced: 09/24/96
Well Work Completed: 10/19/96
Verbal Plugging
Permission granted on:
Rotary X Cable _____ Rig _____
Total Depth (feet) 4146'
Fresh Water Depths (ft) 80'
Salt Water Depths (ft) 1070'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill up Cu. Ft.
16"	40'	40'	
9-5/8"	646'	646'	220 sks Class "A"
7"	1804'	1804'	80 sks Class "A"

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

Coal Depths (ft) _____

OPEN FLOW DATA

Producing formation	Big Six	Pay zone depth (ft)	3976' - 3996'
Gas: Initial open flow	315 MCF/d Oil:	Initial open flow	N/A Bbl/d
Final open flow	481 MCF/d	Final open flow	N/A Bbl/d
Time of open flow between initial and final tests		4	Hours
Static rock pressure	1260 psig (surface pressure after	24	Hours

Second producing formation	Pay zone depth (ft)
Gas: Initial open flow	_____ MCF/d Oil: _____ Bbl/d
Final open flow	_____ MCF/d _____ 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: *John W. Abshire*

Date: 12/30/96

JAN 10 1997

OPEN FLOW DATA

Perf'd Big Six @ 3976' - 3996'. Broke down with 500 gals 15% HCl acid and treated water. Break down pressure - 5400 psi. ISIP - 2850 psi. Treated with 8000 gals 15% HCl acid and 28,000 SCF N2. ATP - 3200 psi. AIR - 3.1 bpm and 450 SCFM. ISIP - 2740 psi.

FORMATION	TOP	BOTTOM
Shale	0	968
Salt sand	968	1324
Shale	1324	1368
Little Lime	1368	1400
Big Lime	1400	1570
MacCrady	1570	1660
Big Injun	1660	1688
Shale	1688	2139
Sunbury Shale	2139	2183
Berea	2183	2310
Shale	2310	3292
Coniferous Lime	3292	3913
Big Six	3913	4020
Keener	4020	4037
Rochester Shale	4037	4146 - TD

**STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION**

Deep Well

Well Operator: CABOT OIL & GAS CORPORATION ¹⁴⁹ 8145 (1) 659

Operator's Well Number: _____ CNR FEE #1 _____ 3) Elevation: 955.74

4) Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production X / Underground Storage ___ /
Deep X / Shallow ___ /

*Issued 07/09/96
Expires 07/09/98*

Proposed Target Formation(s): BIG SINK ⁵⁴⁸

Proposed Total Depth: 4125 feet

Approximate fresh water strata depths: 161, 350, 415

Approximate salt water depths: 1035'

9) Approximate coal seam depths: 105', 462', 538'

10) Does land contain coal seams tributary to active mine? Yes X / No ___ /

11) Proposed Well Work: Drill and complete a gas well.

12) Based on Wayne 1067, 1174, 1546 & Coal company maps.

CASING AND TUBING PROGRAM

TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT

	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	16"	L.S.	65#	30'	30'	10 sks (GFS)
Fresh Water						<i>38CSR19/11.3 38CSR19/11.2.2</i>
Coal	9-5/8"	L.S.	32#	600'	600'	220 sks (CTS)
OPTIONAL Intermediate	*7"	L.S.	20#	1770'	700'	70 sks
Production	4-1/2"	M-70	11.6#	4075'	4075'	125 sks
Tubing						<i>38CSR19/11.1</i>
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Office of Oil and Gas Use Only

Fee(s) paid: Wall Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket Agent

*7" Casing may be run, at company's discretion, if wet below the 9-5/8" casing.

RECEIVED
Environmental Protection
JUN 17 1998
Permitting
Office of Oil & Gas

22187

14394



STATE OF WEST VIRGINIA
OIL AND GAS CONSERVATION COMMISSION
#10 McJUNKIN ROAD
NITRO, WEST VIRGINIA 25143-2506

July 9, 1996

Division of Environmental Protection
Office of Oil and Gas
Nitro, West Virginia

Re: Application for Permit #47-099-01894 to drill deep well.

COMPANY: Cabot Oil and Gas Corporation

FARM: Cassidy/CNR-Fee #1

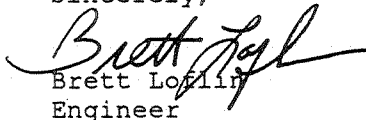
COUNTY: Wayne DISTRICT: Butler QUAD: Wayne

The application of the above company is Approved for Big Six.
(Approved or Disapproved)

Applicant has complied with the provisions of Chapter twenty-two, eight (22-8), of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

- 1.) Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owner; **yes**
- 2.) Provided a tabulation of all deep wells within one mile of the proposed location, including the Api number of the deep well, well name, and the name and address of operator and; ***yes**
- 3.) Provided a plat showing that the proposed location is a distance of **650+** feet from the nearest unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,


Brett Loflin
Engineer

*4,600 feet to 47-099-01042
2,200 feet to 47-099-01174P

2,242 feet to 47-099-01067P

RECEIVED
WV Division of
Environmental Protection
JUN 17 1996
Permitting
Office of Oil & Gas

Page 1 of _____
Form WW2-A
(6/94)
File Copy

1) Date: June 13, 1996
2) Operator's well number _____
CNR - Fee #1 _____
3) API Well No: 47 - 099 - 1894
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served: 5) (a) Coal Operator:
- (a) Name Leonard Cassidy Name Not Operated
Address Rt. 1 Box 18 Address _____
Geona, WV 25577
- (b) Name _____ (b) Coal Owner(s) with Declaration
Address _____ Name Columbia Coal
Address attn: George Billings
P.O. Box 2469, Huntington, WV 25724-2469
- (c) Name _____ Name _____
Address _____ Address _____
- 6) Inspector Richard Campbell (c) Coal Lessee with Declaration
Address P.O. Box 77 Name _____
Sumerco, WV 25567 Address _____
Telephone (304)- 524-7939

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 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 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 22-6 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 Cabot Oil & Gas Corporation
By: [Signature]
Its: Engineering Manager
Address 400 Fairway Drive, Suite 400
Coraopolis, PA 15108
Telephone (412)299-7000

Subscribed and sworn before me this 13th day of JUNE, 1996
Cynthia M. Bowles Notary Public

My commission expires JUNE 17 1996
Cynthia M. Bowles, Notary Public
Charlers Twp., Washington County
My Commission Expires June 17, 1996
Member, Pennsylvania Association of Notaries