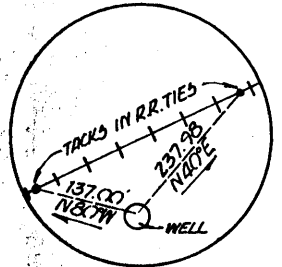
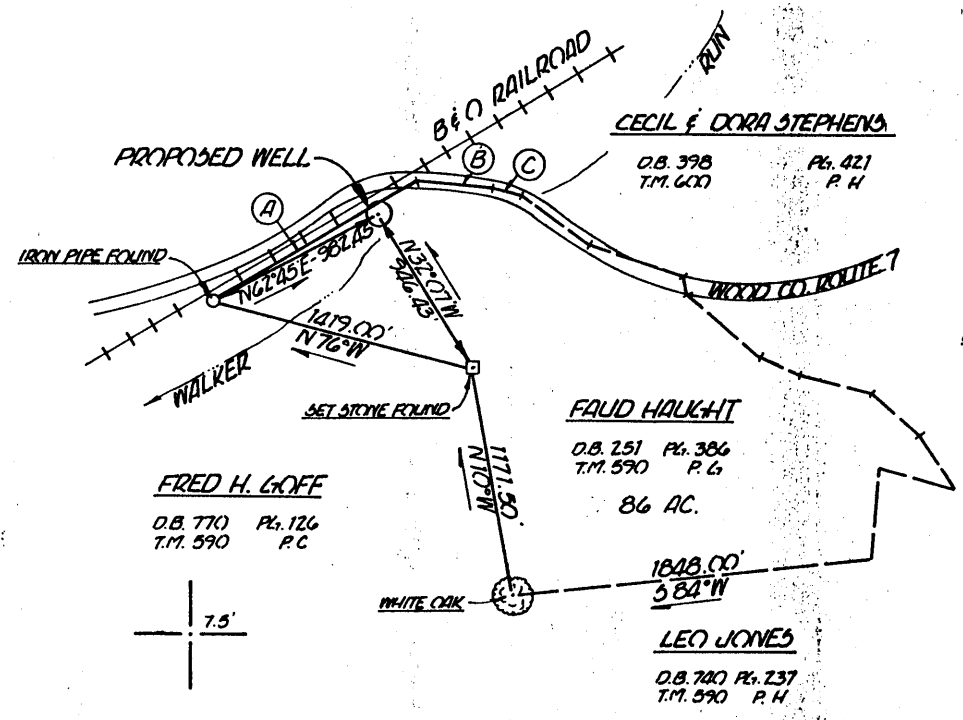


Jamie 7/29/88

11,800' W

LATITUDE 39° 12' 30"

LONGITUDE 81° 20' 00"



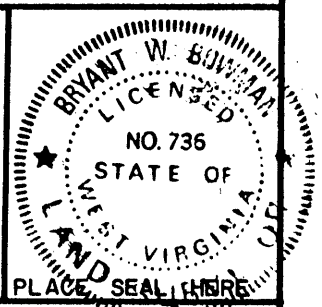
REFERENCE DETAIL

- BOUNDARY:**
- Ⓐ = N59°45'E - 1237.50'
  - Ⓑ = S87°E - 396'
  - Ⓒ = S81°E - 132'

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1' IN 1000'  
 PROVEN SOURCE OF ELEVATION B.M. - N.E. OF LOCATION EL. 638'

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) Bryant W. Bowman  
 R.P.E. \_\_\_\_\_ L.L.S. 736



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (8-78)



Department of Mines  
 Oil & Gas Division

DATE SEPT. 14, 1984  
 OPERATOR'S WELL NO. FAUD HAUGHT NO. 1  
 API WELL NO. 47-107-1331-P  
 STATE COUNTY PERMIT

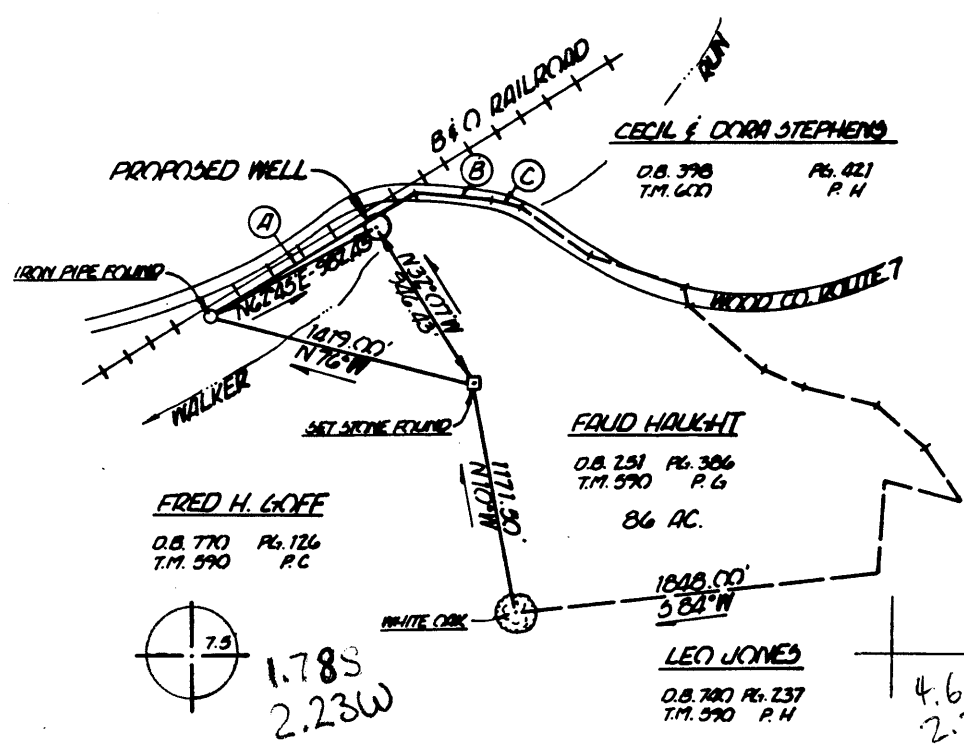
WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS", PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 635 WATER SHED WALKER RUN  
 DISTRICT WALKER COUNTY WOOD  
 QUADRANGLE PETROLEUM 7.5'  
 SURFACE OWNER FAUD HAUGHT ACREAGE 86  
 OIL & GAS ROYALTY OWNER FAUD HAUGHT LEASE ACREAGE 100  
 LEASE NO. 47-8015  
 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 4800' AUG 5 - 1988  
 WELL OPERATOR CABOT OIL & GAS CORP. OF W.VA. DESIGNATED AGENT DAVID G. McCLUSKEY  
 ADDRESS P.O. BOX 628 CHAS., W.VA. ADDRESS P.O. BOX 628 CHAS., W.VA.

WOOD-1331-P

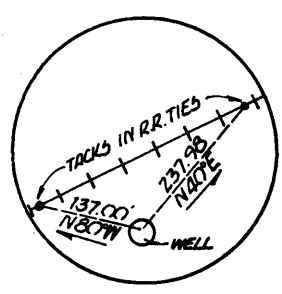
LONGITUDE 81°20'00"  
 9,400' S

1984 MAGNETIC NORTH



1.78 S  
 2.23 W

4.66 S  
 2.23 W

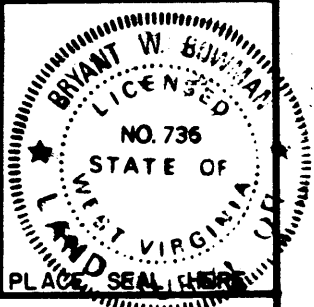


REFERENCE DETAIL

- BOUNDARY:**
- (A) =  $N59^{\circ}45'E - 1237.50'$
  - (B) =  $S87^{\circ}E - 396'$
  - (C) =  $S81^{\circ}E - 132'$

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE  $1" = 1000'$   
 MINIMUM DEGREE OF ACCURACY  $1" IN 1000'$   
 PROVEN SOURCE OF ELEVATION B.P. - N.E. OF LOCATION  
EL. 638'

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) Bryan D. Soutman  
 R.P.E. \_\_\_\_\_ L.L.S. 736



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (8-78)



Department of Mines  
 Oil & Gas Division

DATE SEPT. 14, 1984  
 OPERATOR'S WELL NO. FAUD HOUGHT NO. 1  
 API WELL NO. \_\_\_\_\_  
47 - 107 - 1331  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS", PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 635' WATER SHED WALKER RUN  
 DISTRICT WALKER 9 COUNTY WOOD  
 QUADRANGLE PETROLEUM 7.5544 ELIZABETH 15' NC2  
 SURFACE OWNER FAUD HOUGHT ACREAGE 86  
 OIL & GAS ROYALTY OWNER FAUD HOUGHT LEASE ACREAGE 100  
 LEASE NO. 47-8015  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) DEC 17 1984  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 4800' DEC 17 1984  
 WELL OPERATOR CABOT OIL & GAS CORP. OF W.VA. DESIGNATED AGENT DAVID G. McCLUSKEY  
 ADDRESS P.O. BOX 628 ADDRESS P.O. BOX 628  
CHARS., W.VA. CHARS., W.VA.

IV-35  
(Rev 8-81)

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JAN 18 1985

OIL & GAS DIVISION  
DEPT. OF MINES



State of West Virginia  
Department of Mines  
Oil and Gas Division

Date January 17, 1985  
Operator's  
Well No. #1  
Farm Haught  
API No. 47 - 107 - 1331

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

WELL TYPE: Oil     / Gas XX / Liquid Injection     / Waste Disposal     /  
(If "Gas," Production XX / Underground Storage     / Deep     / Shallow XX /)

LOCATION: Elevation: 635' Watershed Walker Run  
District: Walker County Wood Quadrangle Petroleum 7.5'

COMPANY Cabot Oil & Gas Corporation of WV  
ADDRESS Box 628, Charleston, WV 25322  
DESIGNATED AGENT David G. McCluskey  
ADDRESS Box 628, Charleston, WV 25322  
SURFACE OWNER Faud D. Haught  
ADDRESS Route 2, Box 5, Walker, WV 26180  
MINERAL RIGHTS OWNER Faud D. Haught  
ADDRESS Route 2, Box 5, Walker, WV 26180  
OIL AND GAS INSPECTOR FOR THIS WORK Glen P. Robinson  
ADDRESS Rt. 1, #6, Mt. Pleasant Est. Mineralwells, WV 26150  
PERMIT ISSUED 12/3/84  
DRILLING COMMENCED 12/9/84  
DRILLING COMPLETED 12/17/84  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON    

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20"	34'	34'	
16"	40'	40'	
9 5/8	536.75	536.75	200 sks.
8 5/8			
7	1946.6	1946.6	450 sks.
5 1/2			
4 1/2	4667.8	4667.8	109 sks.
3			
1-1/2	4220.54	4220.54	
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 2133-4689 feet  
Depth of completed well 4697 feet Rotary XX / Cable Tools      
Water strata depth: Fresh 150,250 feet; Salt 1600-1780 feet  
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA  
Producing formation Huron Shale Pay zone depth 3430-3578 / 4162-4230 feet  
Gas: Initial open flow     Mcf/d Oil: Initial open flow     Bbl/d  
4 hr. Final open flow (201) Mcf/d Final open flow     Bbl/d  
Time of open flow between initial and final tests     hours  
Static rock pressure 750 psig (surface measurement) after     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 Oil: Final open flow     Bbl/d  
Time of open flow between initial and final tests     hours  
Static rock pressure     psig (surface measurement) after     hours

FEB 04 1985

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.  
 Perf Huron Shale from 4162-4230' (12 holes). Dumped 500 gals. 15% HCL. BD Huron Shale, 2680 psi. ISIP after BD 2160 psi. ATP 2700 psi. AIR 80,000 SCF N<sub>2</sub>/min. ISIP 2120 psi, 5 min 2020 psi, 10 min 2020 psi, 15 min 2020 psi. Total N<sub>2</sub> 1,000,000 SCF. Perf Upper Huron Shale 3430-3578' (18 holes). Dumped 500 gal. 15% HCL. BD down @ 2800 psi. ISIP after BD 1920 psi. ATP 2680 psi. AIR 80,000 psi SCF N<sub>2</sub>/min, 1,000,000 SCF N<sub>2</sub>. ISIP 2160 psi, 5 min 1880 psi, 10 min 1780 psi, 15 min 1760 psi.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0	961	All measurements from KB.
Sand			961	1013	
Shale			1013	1112	
Sand			1112	1140	
Shale			1140	1210	
Sand			1210	1296	1-1/2" stream H <sub>2</sub> O at 1270'
Shale			1296	1336	
Sand			1336	1365	
Shale			1365	1426	
Sand			1426	1500	
Shale			1500	1550	
Salt Sand/Big Injun			1550	1689	No Big Lime present
Shale			1689	1706	
Sand			1706	1713	
Shale			1713	2114	
Sunbury			2114	2130	
Berea			2130	2133	
Shale			2133	3382	
Huron			3382	4189	
Benson			4189	4209	NSR at TD
Shale			4209	4382	
Pipe Creek			4382	4385	
Shale			4385	T.D.	
DTD			<del>4692' KB</del>		
LTD			4689' KB		

(Attach separate sheets as necessary)

CABOT OIL & GAS CORPORATION OF WEST VIRGINIA

Well Operator

By: David A Mc Cluskey

Date: January 17, 1985

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

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FORM 1-2 (Obsolete) 7-83

NOV 5 1984



1) Date: November 9, 19 84
2) Operator's Well No. F. Haught #1
3) API Well No. 47 - 107 - 1331 State County Permit

OIL & GAS DIVISION DEPT. OF MINES
STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas X
5) LOCATION: Elevation: 635' Watershed: Walker Run
6) WELL OPERATOR Cabot Oil & Gas Corp. of WV
7) DESIGNATED AGENT David G. McCluskey
8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Glen P. Robinson
9) DRILLING CONTRACTOR: Name UNKNOWN
10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate X
11) GEOLOGICAL TARGET FORMATION, Devonian Shale
12) Estimated depth of completed well, 4570 feet
13) Approximate trata depths: Fresh, 150, 250 feet; salt, 1600-1780 feet.
14) Approximate coal seam depths: None Is coal being mined in the area? Yes / No X

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft., New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, Perforations: Top, Bottom)

OFFICE USE ONLY
DRILLING PERMIT
Permit number 47-107-1331 Date December 3, 19 84

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof.

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
Permit expires December 3, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Table with columns: Bond, Agent, Plat, Casing, Fee. Values: 30, MH, MH, MH, 014126

Margaret J. Hassel Administrator, Office of Oil and Gas

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVITE SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: HAUGHT, FAUD D. Operator Well No. ~~XXXXXXXXXX~~

LOCATION: Elevation: 635.00 Quadrangle: PETROLEUM  
District: WALKER County: WOOD  
Latitude: 9400 Feet South of 39 Des. 12 Min. 30 Sec.  
Longitude 11800 Feet West of 81 Des. 20 Min. 0 Sec.

Company: Cabot Oil & Gas Corp. Coal Operator (NOT OPERATED)  
P. O. Box 1473 or Owner  
Charleston, WV 25325

Agent: Thomas H. Blake Coal Operator Faud D. Haught  
Inspector: Glen P. Robinson or Owner Rt. 2 Box 5  
Permit Issued: 08/01/88 Walker, WV 26180

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Kanawha ss:

Boyd K. Winger and Tom Wilson being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Cabot Oil & Gas Corporation, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 12th day of August, 1988, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
4-1/2 Model T CIBP	4060		1-1/2 tbg 4220	0
1 sk Calseal on plug			4-1/2 csg 2950	1718
4-1/2 Model T CIBP	3300		7" csg 0	1946
1 sk Calseal on plug			9-5/8" csg 0	527
6% Gel	3300	2950		
CL-A Neat	2950	2750		
6% Gel	2750	2000		
CL-A Neat	2000	1800		
6% Gel	1800	100		
CL-A Neat	100	Surface		

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DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Description of monument: Monument w/ API#

and that the work of plugging and filling said well was completed on the 13th day of August, 1988.

And further deponents saith not.

Thomas H. Blake

Drilling Superintendent

Sworn and subscribe before me this 18th day of January, 1989

My commission expires: March 5, 1989

Lorene Miller  
Notary Public