

LATITUDE 38° 52' 30"

WELL REFERENCES:  
N56°W, 143' TO 18" CHERRY  
S68°30'W, 137' TO 18" BEECH

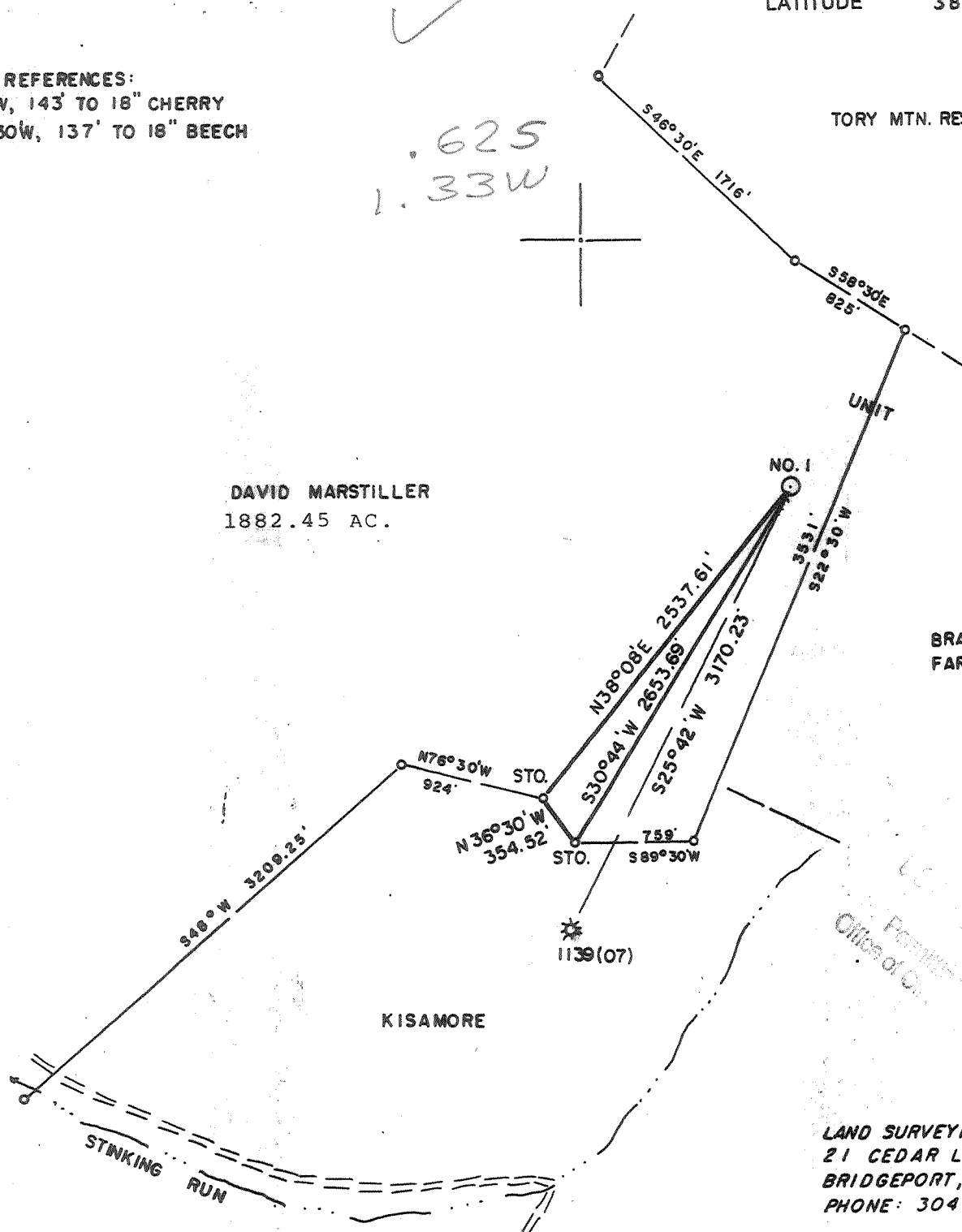
TORY MTN. RESORT, INC.

625  
1.33W

LONGITUDE 79° 30' 00"

DAVID MARSTILLER  
1882.45 AC.

BRAGUNIER  
FARMS, INC.



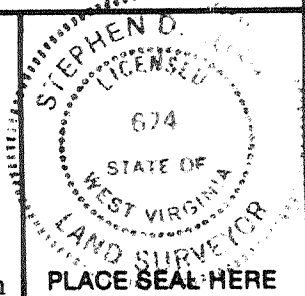
LAND SURVEYING SERVICES  
21 CEDAR LANE  
BRIDGEPORT, WV 26330  
PHONE: 304-842-2018

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

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY 1 in 200  
PROVEN SOURCE OF ELEVATION Rd. inter. 6150' SW of location El. = 2859'

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 ENERGY.

(SIGNED) \_\_\_\_\_  
R.P.E. \_\_\_\_\_ L.L.S. 674



WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
#10 McJUNKIN ROAD  
NITRO, WEST VIRGINIA 25143-2506



DATE September 04, 19 97  
OPERATOR'S WELL NO. Marsteller #1  
API WELL NO.

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION  STORAGE \_\_\_ DEEP  SHALLOW \_\_\_

47 - 083 - 01142  
STATE COUNTY PERMIT

LOCATION: ELEVATION 4333.22' WATER SHED Stinking Run  
DISTRICT Dry Fork COUNTY Randolph  
QUADRANGLE Whitmer 7.5 min.

SURFACE OWNER David S. Marsteller ACREAGE 1882.45  
OIL & GAS ROYALTY OWNER David S. Marsteller LEASE ACREAGE 1882.45  
LEASE NO. 47-10313, A-B

PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) New drill

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION Oriskany ESTIMATED DEPTH 9660  
WELL OPERATOR Cabot Oil & Gas Corporation DESIGNATED AGENT John Abshire  
ADDRESS Rt. 3, Box 583 ADDRESS P. O. Box 454  
Clarksburg, WV 26301 Glasgow, WV 25006

OCT 24 1997

6-6384

DEEP WELL

NORTH

COUNTY NAME PERMIT

083 - 1142

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

24468

- 1) Well Operator: Cabot Oil & Gas Corporation 8145 (2) 678
- 2) Operator's Well Number: Marsteller #1 3) Elevation: 4333.22
- 4) Well Type: a) Oil \_\_\_ / or Gas X /  
b) If Gas: Production X / Underground Storage \_\_\_  
Deep X / Shallow \_\_\_
- 5) Proposed Target Formation(s): Oriskany 475
- 6) Proposed Total Depth: 9660 feet
- 7) Approximate fresh water strata depths: 300', 1189', 1541'
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No X /
- 11) Proposed Well Work: Drill and complete a gas well
- 12) Based on Randolph 1139

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OCT 1 1997  
Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS			CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For Drilling	Left in Well		
Conductor	13-3/8"	L.S.	54.5#	80'	80'	80 sks (GFS)	
Fresh Water	9-5/8"	J-55	36#	1750'	1750'	580 sks (CTS)	
Coal							
Intermediate	*7"	J-55	20#	3500'	3500'	530 sks (CTS)	
Production	4-1/2"	N-80	11.6#	9600'	9600'	100 sks	
Tubing							
Liners							

\*7" may be run, at company's discretion, if water is found below 9-5/8" casing that causes problems drilling to TD

PACKERS: Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Office of Oil and Gas Use Only

- Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP
- Plat  WW-9  WW-2B  Bond \_\_\_\_\_  Agent

(Type)

1906003223

13

1) Date September 17, 1997  
2) Operator's well number  
Marsteller #1  
3) API Well No 47 - 083 - 1142  
State County Permit

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

**RECEIVED**  
Environmental Protection  
Office of Oil & Gas  
OCT 1 1997

**NOTICE AND APPLICATION FOR A WELL WORK PERMIT**

4) Surface Owner(s) to be served  
(a) Name David S. Marsteller  
Address 4 Mills Road  
Gaithersburg, MD 20877  
(b) Name Linda J. Warner  
Address 15225 Breedens Road  
Doswell, VA 23047  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Phillip Tracy  
Address Route 2, Box 37-A  
Montrose, WV 26283  
Telephone (304) 626-0787

5) (a) Coal Operator  
Name Not Operated  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name David S. Marsteller  
Address 4 Mills Road  
Gaithersburg, MD 20877  
Name Linda J. Warner  
Address 15225 Breedens Road  
Doswell, VA 23047  
(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

**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 *Ray Prudnick, Jr.*  
Its Drilling Manager  
Address 400 Fairway Drive Suite 400  
Coraopolis, PA 15108  
Telephone (412)299-7000

Subscribed and sworn before me this 17th day of September, 19 97

*Susan K. Hayden* Notary Public  
My commission expires April 30, 2001

Notarial Seal  
Susan K. Hayden, Notary Public  
Moon Twp., Allegheny County  
My Commission Expires April 30, 2001  
Member, Pennsylvania Association of Notaries



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

October 22, 1997

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

Re: Application for Permit #47-083-01142 to drill deep well.

COMPANY: Cabot Oil and Gas Corporation

FARM: David S. Marstiller #1

COUNTY: Randolph DISTRICT: Dry Fork QUAD: Whitmer

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

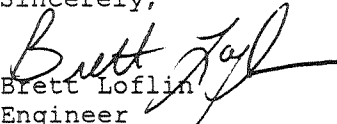
Applicant has complied with the provisions of Chapter twenty-two, eight (22-8), of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

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 **400+** 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

\*3,170 feet to 47-083-01139

WR-35

Date: 5-Oct-98  
API # 47-083-01142

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

Farm name: Marsteller, David S. Operator Well No.: Marsteller #1

LOCATION: Elevation: 4,333.22' Quadrangle: Whitmer  
District: Dry Fork County: Randolph  
Latitude: 3,210 feet South of 38 DEG. 52 MIN. 30 SEC.  
Longitude: 7,070 feet West of 79 DEG. 30 MIN. 0 SEC.

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

Agent: John Abshire  
Inspector: Philip Tracy  
Permit Issued: 10/24/97  
Well Work Commenced: 1/30/98  
Well Work Completed: 3/17/98  
Verbal Plugging  
Permission granted on:  
Rotary X Cable Rig  
Total Depth (feet) 9537'  
Fresh Water Depths (ft) 132'  
Salt Water Depths (ft) --

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill up Cu. Ft.
13-3/8"	57'	57'	15 sks Class "A"
9-5/8"	1799.90'	1799.90'	600 sks Class "A"
4-1/2"	9301'	9301'	230 sks Class "A"

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

RECEIVED  
Office of Oil & Gas Permitting  
OCT 21 1998  
WV Division of Environmental Protection

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth (ft) open hole  
Gas: Initial open flow 1,032 MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 4,230 MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 24 Hours  
Static rock pressure 2,185 psig (surface pressure after 48 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: [Signature]  
Date: 10-14-98

RAN 1142

**OPEN FLOW DATA**

Pumped 144 bbls of 15% HCl acid at 7.7 bpm and 3230 psi. No true break seen. ISIP: 2500 psi. Frac'd well with 1,720 bbls of 30# x-linl gel, 11,200# 80/100 mesh, 54,000# 20/40 mesh sand. ATP: 3628 psi. MTP: 4200 psi. AIR: 20 bpm. ISIP: 2485 psi.

FORMATION	TOP	BOTTOM	REMARKS
KB	0	10	
Sand/Shale	10	3334	
Shale/Silt	3334	3795	
Sand	3795	3918	
Sand/Shale	3918	4391	
Shale/Sand	4391	6104	
Shale	6104	7733	
Sand	7733	7768	
Shale	7768	7980	
Sand	7980	7992	
Shale	7992	8661	
Tully	8661	8707	
Shale/Lime	8707	8910	
Upper Marcellus	8910	8993	
Purcell	8993	9024	
Lower Marcellus	9024	9096	
Onondaga	9096	9149	
Huntersville	9149	9205	
Needmore	9205	9231	
Oriskany	9231	9439	
Helderberg	9439	9537 - TD	