

Jamie 5/10/90

9,600'

LATITUDE 38° 30' 00"

LONGITUDE 81° 45' 00"

REFERENCES

N. T. S.

REF. 1 - NAIL IN
6" CHESTNUT OAK

W. B. CUNNINGHAM, ET UX
177/383
T.M. 197, Par. 82

N 05° 09' 09" E
135.95'

ALBERTSON #6

S 07° 12' 00" W
128.51'

REF. 2 - NAIL IN
5" SUGAR MAPLE

N 44° 24' 18" E
1404.92'

PROPOSED
ALBERTSON #6

N 44° 29' 46" E
2539.33'

PLASTIC STAKE AT
TOP OF KNOB
FOUND

N 48° 07' 40" E
2184.77'

N 62° 42' 37" E
1725.46'

S 69° 55' 37" E
827.57'

PROPOSED
TROUT A-2

S 71° 24' 07" W
2818.76'

1845
1827W

S 48° 43' 48" W
3008.86'

7.5' LOC.

*577

PROPOSED
ALBERTSON #8

DUPONT EMPLOYEES
HUNTING & FISHING CLUB, INC.
131/426
T.M. 217, Par. 26, 27

STRIP MINE

POCA RIVER HUNTING,
FISHING, & RECREATION CLUB
M.B. 9, PG. 209, 210
T.M. 217, Par. 28

WELL COORDINATES

W. VA. SYSTEM

N 537408.62

E 1777998.03

2" IRON PIPE FOUND LEASE BOUNDARY

FILE NO. 8723-90
DRAWING NO. ALBERTSON #6
SCALE 1" = 1000'
MINIMUM DEGREE OF
ACCURACY 1:2500
PROVEN SOURCE OF
ELEVATION US C.G.S. BM J5
EL. 604.39

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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF MINES.
(SIGNED) William J. Whitman EPS
R.P.E. _____ R.P.S. 646

WILLIAM J. WHITMAN
REGISTERED
No. 646
STATE OF
WEST VIRGINIA
PROFESSIONAL SURVEYOR
PLACE SEAL HERE

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



DATE FEBRUARY 12, 19 90
OPERATOR'S WELL NO. ALBERTSON #6
API WELL NO. _____
47 079 - 1153
STATE COUNTY PERMIT

**STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION**

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___
LOCATION: ELEVATION 959.51 WATER SHED POCOTALICO RIVER
DISTRICT POCOTALICO 3 COUNTY PUTNAM
QUADRANGLE SAINT ALBANS, W. VA. +15' NE
SURFACE OWNER W. B. CUNNINGHAM ACREAGE 1307.12
OIL & GAS ROYALTY OWNER ELEANOR R. ALBERTSON, HRS. LEASE ACREAGE 1.000
LEASE NO. 47-0955
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 ORISKANY ESTIMATED DEPTH 5005
WELL OPERATOR CABOT O. & G. CORP. DESIGNATED AGENT DAVID G. McCLUSKEY
ADDRESS P.O. BOX 1473 ADDRESS P.O. BOX 1473
CHARLESTON, W. VA. CHARLESTON, W. VA.

MAY 29 1990

DEEP WELL 6-6 Elk. Poca (Sissonville) (192)

JAN 23 91

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

Farm name: CUNNINGHAM, W. B. ETAL Operator Well No.: ALBERTSON #6
 Location: Elevation: 959.51 Quadrangle: SAINT ALBANS

District: POCATALIGO County: PUTNAM
 Latitude: 9700 Feet South of 38 Deg. 30 Min. 0 Sec.
 Longitude: 9600 Feet West of 81 Deg. 45 Min. 0 Sec.

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

Agent: DAVID G. MCCLUSKEY

Inspector: GLEN P. ROBINSON
 Permit Issued: 5/22/90
 Well Work Commenced: 8/28/90
 Well Work Completed: 9/5/90

Verbal Plugging _____
 Permission granted on: _____
 Rotary X Cable _____ Rig _____
 Total Depth (feet) 5030
 Fresh water depths (ft) _____

Salt water depths (ft) 1570

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16	40	40	
11-3/4	317	317	150 sks CL-A
8-5/8	2112	2112	520 sks CL-A
5-1/2	4991	4991	191 sks Spherelite
1-1/2		4926.85	
1-1/2		4177.62	
Baker Pkr @ 4230			

OPEN FLOW DATA

Producing formation Shale Pay zone depth (ft) 3244-4183
 Gas: Initial open flow 223 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 100 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 4 Hours
 Static rock Pressure 580 psig (surface pressure) after 240 Hours

Second Producing formation Oriskany Pay zone depth (ft) 4924-4938
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 122 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 4 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 McCluskey
 Date: 1-21-91

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

Perforate Oriskany 4924'-4938' 2 SPF (29 holes). Break down Oriskany w/ 500 gal 15% HCl. Displ w/ 216,000 scf N₂ @ 28,000 scfm. BDP 5017 psi. Surf ISIP 4500 psi. Treat w/ 26,000 lbs sand & 587,000 scf N₂ in 75Q foam. Perforate Shale 3694'-4183' L_H 1 SPF (25 holes). Break down Shale w/ 1000 gal 7.5% HCl & displ w/ 100,000 scf N₂ @ 29,000 scfm. BDP 1680 psi. Surf ISIP 1231 psi. Treat w/ 120,000 lbs sand & 641,000 scf N₂ in 75Q foam. Perforate Stage 2 - Shale 3244'-3542' (12 holes). Break down Stage 2 - Shale w/ 1000 gal 7.5% HCl & displ w/ 76,000 scf N₂ @ 15,300 scfm. BDP 2596 psi. Surf ISIP 1660 psi. Treated w/ 80,000 lbs sand & 495,000 scf N₂ in 75Q foam.

FORMATION	TOP	BOTTOM
Sandstone	0	320
Sandy Shale	320	630
Shaley Sand	630	1400
Salt Sand	1400	1780
Big Lime	1780	1880
Big Injun	1880	1990
Shale	1990	2010
Squaw	2010	2060
Sandy Shale	2060	2235
Shale	2235	2465
Coffee Shale	2465	2485
Berea	2485	2495
Shale	2495	3690
Lower Huron	3690	4600
Marcellus	4600	4825
Onodaga	4825	4915
Oriskany	4915	4940
Helderberg	4940	TD

10/23

079 1153
Issued 5/22/90

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

Page 1 of 1
Expires 5/22/90

- 1) Well Operator: CABOT OIL & GAS CORPORATION 8145 (3) 593
- 2) Operator's Well Number: Albertson #6 3) Elevation: 959.51
- 4) Well type: (a) Oil / or Gas X /
(b) If Gas: Production X / Underground Storage /
Deep X / Shallow /
- 5) Proposed Target Formation(s): Lower Huron, Oriskany
- 6) Proposed Total Depth: 5000 feet
- 7) * Approximate fresh water strata depths: Surface, 214'
- 8) * Approximate salt water depths: 1540'
- 9) * Approximate coal seam depths: 159' solid
- 10) Does land contain coal seams tributary to active mine? Yes X / No /
- 11) Proposed Well Work: Drill and stimulate a commingled Lower Huron/ Oriskany well.
- 12) * Based on Putnam; 591, 1118, 1120 and mine maps.

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	16"	LS	65	50	50	15 sks CL-A
Fresh Water	11-3/4"	H40	42	300	300	150 sks CL-A
Coal						98 CSR-10-11.3 38 CSR-10-11.2.2
Intermediate	8-5/8"	J-55	24	2080	2080	520 sks CL-A
Production	5-1/2"	N-80	17	5000	5000	280 sks CL-A TOC 3000'
Tubing	1-1/2"	CW-55	2.75	4900	4900	38 CSR-10-11.1 N/A
Liners	1-1/2"	CW-42	2.75	4000	4000	N/A

PACKERS : Kind N/A
Sizes 1-1/2" X 5-1/2"
Depths set 4200'

RECEIVED
Division of Energy
MAY 07 90

For Division of Oil and Gas Use Only

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

002333
11

RECEIVED

Page 1 of _____
Form WW2-A
(09/87)
File Copy

Division of Energy
MAY 07 90
Permitting
Oil and Gas Section

1) Date: May 3, 1990
2) Operator's well number
Albertson #6
3) API Well No: 47 - 079 - 1153
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 W. B. Cunningham
Address #2 Morris Street
Charleston, WV 25301
(b) Name Poca River Hunting &
Address Fishing Club. Attn. Bill
901 W. Dupont Rd. Belle WV 25105
(c) Name Dennis R. Knapp
Address 2109 21st Street
Nitro, WV 25143

5) (a) Coal Operator:
Name NOT OPERATED
Address _____
(b) Coal Owner(s) with Declaration
Name W. B. Cunningham
Address #2 Morris Street
Charleston, WV 25301
Name _____
Address _____

6) Inspector Jerry Tephacock
Address Rt. 1 Box 101A
Ripley, WV 25271
Telephone (304)- 372-6805

(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 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:

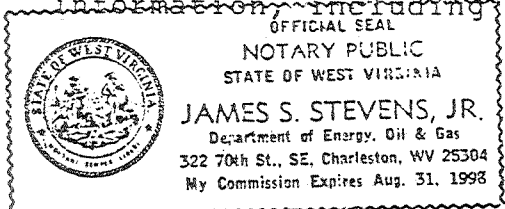
- _____ Personal Service (Affidavit attached)
- x Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

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 CABOT OIL & GAS CORPORATION
By: Daniel McCreary
Its: Drilling Superintendent
Address P. O. Box 1473
Charleston, WV 25325
Telephone (304) 347-1600



Subscribed and sworn before me this 7 day of MAY, 1990

James S. Stevens, Jr. Notary Public
My commission expires Aug. 31, 1998