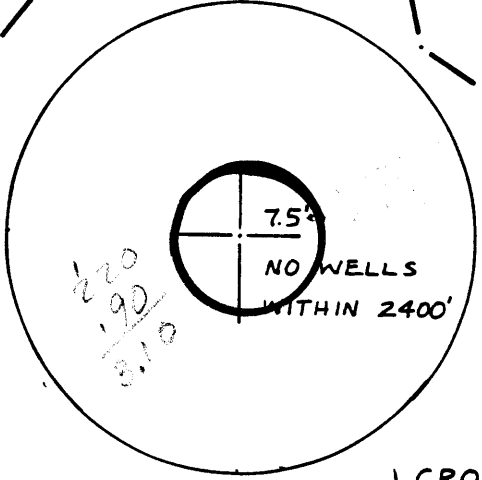
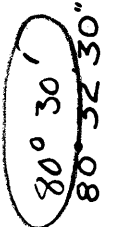
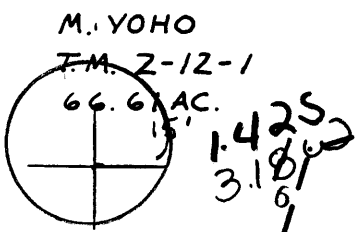


12-17-81

4,700' LATITUDE 39° 55'

LONGITUDE 7,600'

NORTH



H. WHIPKEY
T.M. 2-13-22
66.84 AC.

529W
841.5'

J. CROW
T.M. 2-12-11
96 AC.

R. DUNN
T.M. 2-12-3
107.39 AC.

A. DUNN
T.M. 2-13-23
52.47 AC.

NB8E 2747.3'

R. WHIPKEY
T.M. 2-12-4
24 AC.

39° 53' 46"
80° 33' 30"

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/2500
 PROVEN SOURCE OF ELEVATION RD INTER 1021'

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) Neal Hughes
 R.P.E. _____ L.L.S. 632

7.5' =
 1.455
 0.90W
 PLACE SEAL HERE

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



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE DEC. 13, 19 81
 OPERATOR'S WELL NO. R. DUNN 1
 API WELL NO. _____
47 - 051 - 0684
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 1015 WATER SHED WILLIAMS RUN
 DISTRICT WEBSTER COUNTY MARSHALL
 QUADRANGLE MAJORSVILLE 7.5' Cameron 15 EC
 SURFACE OWNER RAYMOND DUNN ACREAGE 107.39
 OIL & GAS ROYALTY OWNER R. DUNN LEASE ACREAGE 107
 LEASE NO. 1835
 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 ALEXANDER ESTIMATED DEPTH 5500 30 Majorsville
 WELL OPERATOR WHITNAM OIL + GAS DESIGNATED AGENT John E. Williams (022)
 ADDRESS 100 FRONT ST. MARIETTA, OHIO 45750 ADDRESS RR #1 Box 41 LINDA WEST VIRGINIA 26384



IV-35
(Rev 8-81)

Date September 21, 1982
 Operator's Well No. R. DUNN #1
 Farm R. DUNN
 API No. 47 - 051 - 0684

State of West Virginia
 Department of Mines
 Oil and Gas Division

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

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

LOCATION: Elevation: 1015' Watershed Williams Run
 District: Webster County Marshall Quadrangle Majorsville 7.5'

COMPANY WHITNAM OIL & GAS CORPORATION
 ADDRESS 100 Front St, Marietta, Ohio 45750
 DESIGNATED AGENT John E. Williams
 ADDRESS Rt. #1, Box 41, Linn, W.Va. 26384
 SURFACE OWNER Raymond L. Dunn
 ADDRESS Rt. #4, Box 55, Cameron, W.Va. 26033
 MINERAL RIGHTS OWNER Same
 ADDRESS _____
 OIL AND GAS INSPECTOR FOR THIS WORK Phillip Tracy
 ADDRESS Rt.23, Alma, WVa. 26320
 PERMIT ISSUED 12/18/81
 DRILLING COMMENCED 1/19/82
 DRILLING COMPLETED 1/29/82
 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
11 3/4 - 13-10"	40	40	N/A
9 5/8			
8 5/8	1186	1186	350
7			
5 1/2			
4 1/2	4975	4975	595
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 2602-5418 feet
 Depth of completed well 5491 feet Rotary X / Cable Tools _____
 Water strata depth: Fresh N/A feet; Salt N/A feet
 Coal seam depths: See Log Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3760-3770 feet
 Gas: Initial open flow 75 Mcf/d Oil: Initial open flow ---- Bbl/d
 Final open flow 20 Mcf/d Final open flow ---- Bbl/d
 Time of open flow between initial and final tests ---- hours
 Static rock pressure 1400 psig (surface measurement) after 48 hours shut in
 (If applicable due to multiple completion--)
 Second producing formation N/A 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 shut in

(Continue on reverse side)

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

Perforate @ 3760-3770 40 Shots
1 - 12' Stress Frac
Frac w/ 1260,000 SCF N₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Big Dunkard Sand			1197	1213	
Upper Freeport Coal			1215	1218	Coal
Lower Freeport Coal			1258	1262	Coal
Clairion Coal			1361	1363	Coal
Brookville Coal			1395	1399	Coal
1st & 2nd Salt Sand			1430	1466	
3rd Salt Sand			1469	1510	Gas
Greenbrier L.S.			1618	1709	
Keener Sandstone			1713	1755	Gas
Big Injun			1755	1874	
Squaw			1877	1887	
Welsh - Stray			2188	2202	
Berea			2236	2253	
Gordon - Stray			2552	2557	
Gordon			2592	2602	
Shale			2602	5418	all exp. str.

DF

(Attach separate sheets as necessary)

WHITNAM OIL & GAS CORPORATION

Well Operator

By: *Philip G. Putnam*

Date: 9/21/82

JUL 14 1989

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 coal, encountered in the drilling of a well."

4463

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil x / Gas x /
(If "Gas", Production x / Underground storage ___ / Deep ___ / Shallow ___ /

LOCATION: Elevation: 1015 Watershed: Williams Run

District: Webster County: Marshall Quadrangle: Majorsville 7.5'

WELL OPERATOR WHITNAM OIL & GAS CORPORATION DESIGNATED AGENT JOHN E. WILLIAMS

Address P. O. Box 719
Marietta, Ohio 45750

Address Route 1, Box 41
Linn, W. Va. 26384

OIL & GAS
PROPERTY OWNER Raymond L. Dunn

Address R. D. #4, Box 55
Cameron, W. Va. 26033

Acreage 107

PROPERTY OWNER Raymond L. Dunn

Address R. D. #4, Box 55
Cameron, W. Va. 26033

Acreage 107

FIELD SALE (IF MADE) TO:

Name _____

Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:

Name Phillip L. Tracy

COAL OPERATOR N/A

Address _____

COAL OWNER(S) WITH DECLARATION ON RECORD:

Name _____

Address _____

RECEIVED

DEC 16 1981

Name OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Address _____

COAL LESSEE WITH DECLARATION ON RECORD:

Name _____

Address _____

The undersigned well operator is entitled to operate for oil or gas purposes at the above

location under a deed ___ / lease ___ / other contract x / dated Oct. 1, 1981, to the

undersigned well operator from Carl E. Smith Petroleum, Inc.

(if said deed, lease or other contract has been recorded:)

recorded on Dec. 3, 1981, in the office of the Clerk of the County Commission of Marshall

county, West Virginia, in Oil & Gas Book 495, at page 52. A permit is requested as follows:

PROPOSED WORK: Drill x / Drill Deeper ___ / Redrill ___ / Fracture or stimulate ___ /
Plug off old formation ___ / Perforate new formation ___ /
Other physical change in well (specify) _____

BLANKET BOND

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any

objection they wish to make or are required to make by Code 522-4-3 must be filed with the De-

partment of Mines within fifteen (15) days after the receipt of this Application by Department

Copies of this Permit Application and the enclosed plat and reclamation plan have been mai-

l registered mail or delivered by hand to the above named coal operator, coal owner(s), and c-

opies on or before the day of the mailing or delivery of this Permit Application to the Depa-

rtment of Mines at Charleston, West Virginia.

WHITNAM OIL & GAS CORPORATION

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DILLING CONTRACTOR (IF KNOWN) PAN EASTERN DRILLING
Address Route 2, Box 44AA
Lowell, Ohio 45744

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5500 feet Rotary X / Cable tools /
Approximate water strata depths: Fresh, 200 feet; salt, feet.
Approximate coal seam depths: Is coal being mined in the area? Yes / No X /

casing AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft	New	Used	For drilling			Left in well
Conductor	11 3/4			X			30'	.15 sacks	Kinds
Fresh water	8 5/8			X			1200'	To surface	
Coal									Sizes
Intermediate									
Production	5 1/2			X			5500'	500 sq or as Required by	Depths set Rule 15.01
Tubing									Perforations:
Runners									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 8-21-82.

J. E. Murray
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: , 19

By
Its