

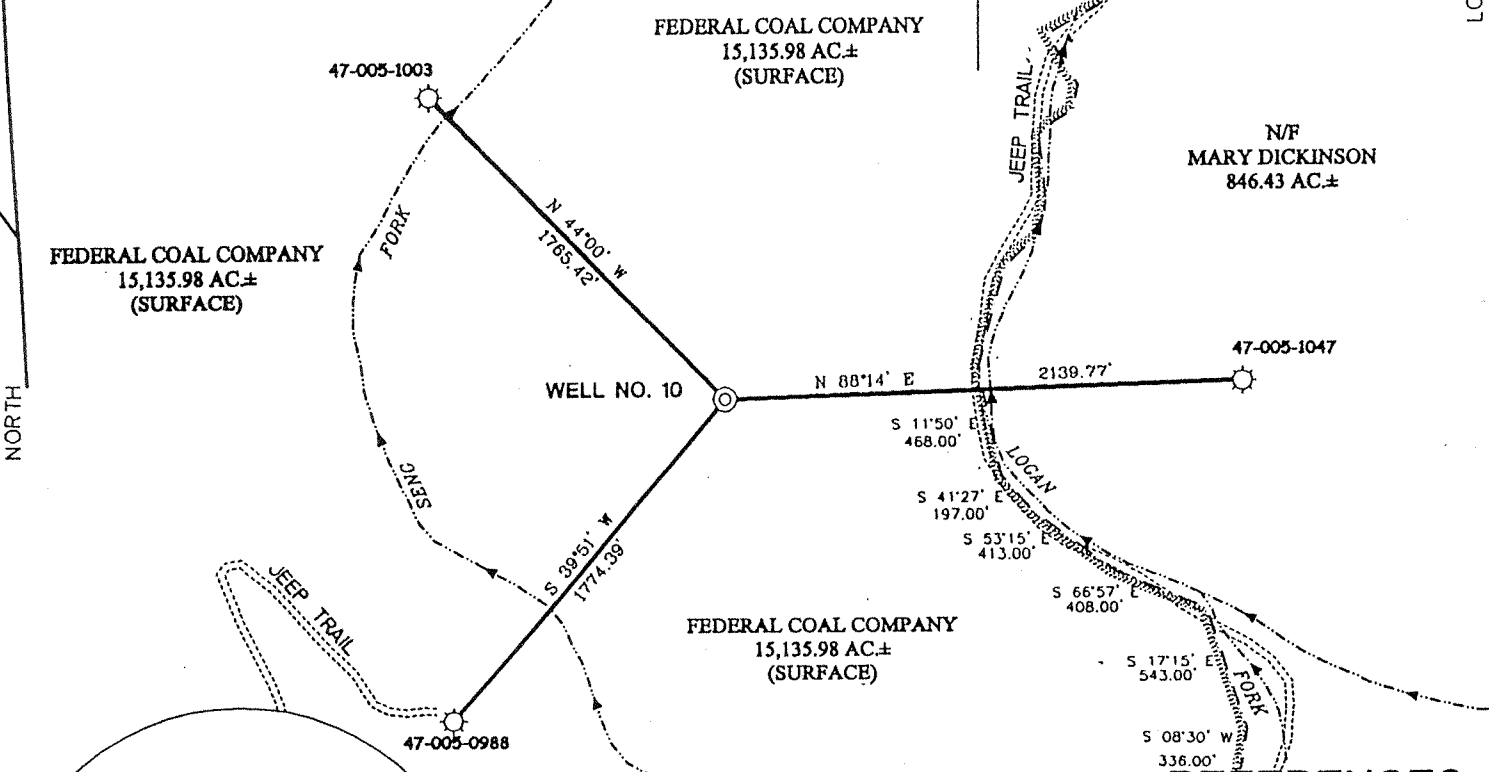
FEDERAL COAL LEASE

18,138 ACRES ±

WELL NO. 10

LONGITUDE 81°35'00"
LAT. 37°59'40.1" 2,000'

NORTH



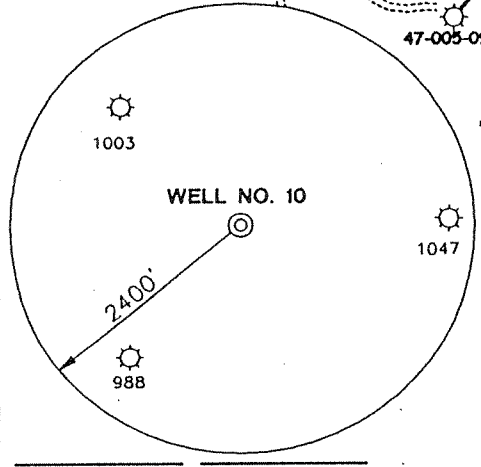
WELL NO. 10
STATE PLANE
COORDINATES
(N) 362,671
(E) 1,826,667

FEDERAL COAL COMPANY
15,135.98 AC±
(SURFACE)

FEDERAL COAL COMPANY
15,135.98 AC±
(SURFACE)

N/F
MARY DICKINSON
846.43 AC±

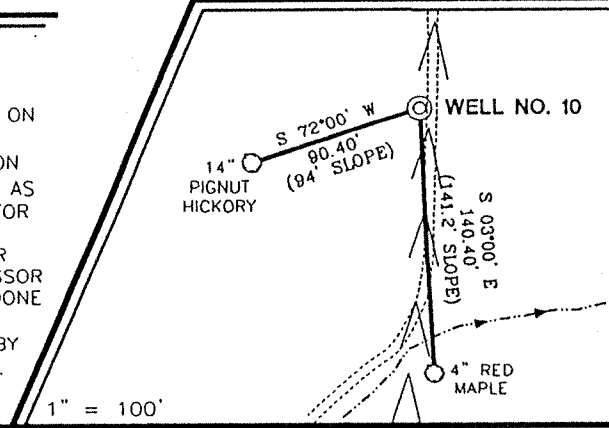
FEDERAL COAL COMPANY
15,135.98 AC±
(SURFACE)



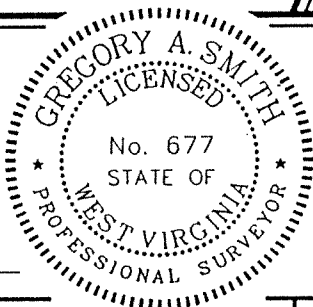
NOTES ON SURVEY

1. TIES TO WELLS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 8/16/99.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT DATED 8/8/73 AS PREPARED BY JACKSON M. JARVIS FOR A.P.I. NO. 47-005-1047.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF BOONE COUNTY IN MAY, 1999.
5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

REFERENCES




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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE SEPTEMBER 23, 19 99
 OPERATORS WELL NO. FEDERAL COAL #10
 API WELL NO. 47-005-01711
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 3481P10 (84-12)
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 1882' SCALE 1" = 800'

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS



WELL TYPE : OIL GAS LIQUID WASTE INJECTION DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION : ELEVATION 1818' WATERSHED SENG FORK
 DISTRICT SHERMAN COUNTY BOONE QUADRANGLE WHITESVILLE 7.5'

SURFACE OWNER FEDERAL COAL COMPANY ACREAGE 15,135.98
 ROYALTY OWNER FEDERAL COAL COMPANY LEASE ACREAGE 18,138
 PROPOSED WORK : LEASE NO. 300528
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION DEVONIAN SHALE
 ESTIMATED DEPTH 5,300'

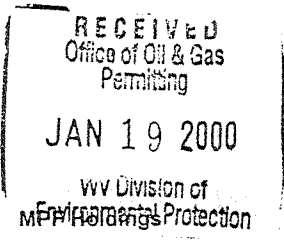
WELL OPERATOR EASTERN STATES OIL AND GAS, INC. DESIGNATED AGENT ROBERT ALLEY
 ADDRESS P.O. BOX 2347 CHARLESTON, WV 25328 ADDRESS P.O. BOX 2347 CHARLESTON, WV 25328

COUNTY NAME BOONE
PERMIT 1711

OCT 25 1999

6-6 247

WR-35



21-Oct-99
API # 47- 005-01711

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

Reviewed K

Farm Name: MFP Holdings Protection

Operator Well No.: Federal Coal 10

LOCATION: Elevation: 1,818.00 Quadrangle: Whitesville
District: Washington County: Boone

Latitude: 2000 Feet South of 38 Deg. 0 Minutes 0 Seconds
Longitude: 5310 Feet West of 81 Deg. 35 Minutes 0 Seconds

Company: BLAZER ENERGY CORPORATION
P.O. Box 2347, 1710 Pennsylvania Avenue
Charleston, WV 25328

Agent: Robert Alley

Inspector: Richard Campbell
Permit Issued: 10/22/99
Well work commenced: 11/15/99
Well work completed: 01/07/00

Verbal Plugging Permission granted on:

Rotary Rig X Cable Rig _____
Total Depth 3524 feet
Fresh water depths (ft) 250'

Salt water depths (ft) 711', 1637', 2135'

Is coal being mined in area? _____
Coal Depths (ft): 104', 318', 890', 973'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13 3/8"	40'	40'	Grouted
9 5/8"	468'	468'	206.5 ft³
7"	1064'	1064'	207.3 ft³
4 1/2"	3473'	3473'	226.8 ft³

OPEN FLOW DATA

Producing formation U. Weir, B.Lime, U. Maxton, Big Lime Pay Zone Depth (ft): _____ See Attach for details

Gas: Initial open flow NS MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow: 375 MCF/d Final open flow: _____
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure 254 psig (surface pressure) after _____ 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: _____
 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: BLAZER ENERGY CORPORATION

By: [Signature]
Date: 1/14/00

Boo 1711

FEB 25 2000

EASTERN STATES OIL & GAS, INC.
WR-35 COMPLETION REPORT - Attachment
Well Treatment Summary

Well: Federal Coal 10

API# 47-005-01711

Date	12/14/99	12/30/99	12/30/99			
Type Frac Acid, N ₂ , Foam, Water	75 Q Foam	Acid w/ N ₂ Displacement	75 Q Foam			
Zone Treated	Upper Weir	Big Lime	Upper Maxton			
# Perfs From - To:	31 3280' - 3416'	24 3084' - 3122'	54 2448' - 2516'			
BD Pressure @ psi	1594	1614	3316			
ATP psi	3220	2123	3205			
Avg. Rate, B=B/M, S= SCF/M	30 B (foam)	14,000 S 13 B	12 B (foam)			
Max. Treat Press psi	4110	3489	3871			
ISIP psi	676	1390	2353			
Frac Gradient	.66	.91	1.4			
10 min S-I Pressure		1850	2645			
Material Volume						
Sand-sks	470		350			
Water-bbl	184		150			
SCF N ₂	458,000	105,000	460,000			
Acid-gal	1500 gal 15.2%	2500 gal 15%	1000 gal 15.1%			
NOTES:						

TOP	BOTTOM	FORMATION	REMARKS
0	104	Sand	
104	109	Coal	
109	318	Sand	Water @ 250'
318	320	Coal	
320	432	Sand & Shale	
432	438	Open Mine	
438	611	Sandy Shale	
611	767	White Sand	Water @ 711'
767	890	Sand & Shale	
890	892	Coal	
892	973	Sand & Shale	
973	976	Coal	
976	1490	Sand & Shale	
1490	1493	Coal	
1493	1631	Sand	
1631	2280	Salt Sand	Water @ 1637' & 2135' GT @ 2227' = NS
2364	2390	Ravencliff	GT @ 2410' = NS
2448	2518	Upper Maxton	GT @ 2530' = NS
2831	2912	Little Lime	GT @ 2721', 2900 = NS
2912	3178	Big Lime	GT @ 3050', 3186' = NS
3187	3197	Big Injun	
3273	3450	Upper Weir	GT @ 3278 = NS
	3524	TD	

