

**NOTES ON SURVEY**

1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 1/05/00.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 26 ON PAGE 588.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MINGO COUNTY IN OCTOBER, 1999.
5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

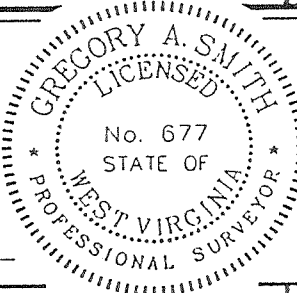
**WELL NO. A-10 STATE PLANE COORDINATES**

(N) 232,310  
(E) 1,749,993



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.

P.S. 677 Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE FEBRUARY 16, 2000  
OPERATORS WELL NO. A-10  
API WELL NO. 47-059-01352  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 3696PA10 (84-35)  
PROVEN SOURCE OF ELEVATION BENCH MARK ELEVATION 817' SCALE 1" = 500'

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

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

LOCATION : ELEVATION 1563' WATERSHED TRIBUTARY OF GUYANDOTTE RIVER  
DISTRICT STAFFORD COUNTY MINGO QUADRANGLE MALLORY 7.5'

SURFACE OWNER CHARLES A. HAMILL et al & FOSTER FOUNDATION, INC. ACREAGE 74.75  
ROYALTY OWNER CHARLES A. HAMILL et al & FOSTER FOUNDATION, INC. LEASE ACREAGE 74.75  
PROPOSED WORK : LEASE NO. 300-567

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 5960'

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

DEEP WELL

6-6-271

MAR 24 2000

00°50'51.00" LONGITUDE  
11.580'  
08°11'  
LAT. 37°36'05.3"  
MINGO COUNTY NAME  
PERMIT 1352

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Reviewed \_\_\_\_\_

Well Operator's Report of Well Work

Farm Name: Hamill, Foster FND / W. Poca Operator Well No.: Hamill / Goody Koontz A-10

LOCATION: Elevation: 1563' Quadrangle: Mallory

District: Stafford County: Mingo

Latitude: 11580 Feet South of 37 Deg. Minutes 40 Seconds 0  
Longitude: 8680 Feet West of 81 Deg. Minutes 50 Seconds 0

Company: Eastern States Oil & Gas  
P.O. Box 2347, 1710 Pennsylvania Avenue  
Charleston, WV 25328

Agent: Robert Alley

Inspector: Offie Helmick

Permit Issued: 03/24/2000

Well work commenced: 06/02/00

Well work completed: 06/25/00

Verbal Plugging

Permission granted on: \_\_\_\_\_

Rotary Rig X Cable Rig \_\_\_\_\_

Total Depth 5849 feet

Fresh water depths (ft) 188'

Salt water depths (ft) 890'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13 3/8"	40'	40'	grouted
9 5/8"	716'	716'	283 ft <sup>3</sup>
7"	2886'	2886'	520 ft <sup>3</sup>
4 1/2"	5817'	5817'	372 ft <sup>3</sup>

Is coal being mined in area?

Coal Depths (ft): 70', 97', 113', 153', 168', 398'

OPEN FLOW DATA

Producing formation Lower Shale, Upper Shale, Berea, Big Lime, Weir

Pay Zone Depth (ft): See Attach for details

Gas: Initial open flow 0 MCF/d

Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow: 1748 MCF/d

Final open flow: \_\_\_\_\_

Time of open flow between initial and final tests \_\_\_\_\_ Hours

Static rock pressure 665 psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_

Pay Zone Depth (ft): \_\_\_\_\_

Gas: Initial open flow \_\_\_\_\_ MCF/d

Oil: Initial open flow \_\_\_\_\_ Bbl/d

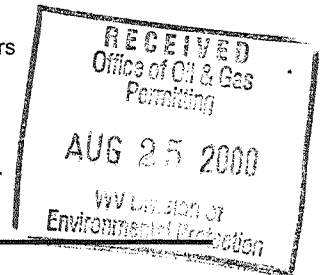
Final open flow: \_\_\_\_\_ MCF/d

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: Eastern States Oil & Gas

By: [Signature]  
Date: 8/23/00

SEP 01 2000

MIN 60 1352

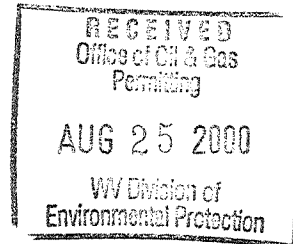
**EQUITABLE PRODUCITON COMPANY  
WR-35 COMPLETION REPORT - Attachment  
Well Treatment Summary**

Well: Hamill - Goody Koontz A-10

API# 47-059-01352

Date	06/22/00	06/22/00	06/22/00	06/22/00		
Type Frac	N <sup>2</sup>	N <sup>2</sup>	N <sup>2</sup>	Acid w/ N <sup>2</sup>		
Acid, N <sub>2</sub> , Foam, Water				Displacement		
Zone Treated	Lower Shale	Upper Shale	Berea	Big Lime Weir		
# Perfs	14	18	16	15		
From - To:	5570' - 5747'	4834' - 5236'	3795' - 3810'	3195' - 3391'		
BD Pressure @ psi	3890	3072	2818	824		
ATP psi	3731	2908	2780	1631		
Avg. Rate, B=B/M, S= SCF/M	56,566 S	52,389 S	60,500 S	7 B 55,529 S		
Max. Treat Press psi	4035	3923	2818	3921		
ISIP psi	3387 (final)	2950	1612	2650		
Frac Gradient	.72	.70	.49	.93		
10 min S-I Pressure	1744	1355	990	1156		
Material Volume						
Sand-sks						
Water-bbl						
SCF N <sub>2</sub>	439,016	873,134	477,169	351,971		
Acid-gal	630 gal 7 1/2%	500 gal 7.8%	400 gal 15.1%	2500 gal 15.4%		
NOTES:						

TOP	BOTTOM	FORMATION	REMARKS
0	40'	Top Soil	
40'	70'	Sandy Shale	
70'	73'	Coal	
73'	97'	Sandy Shale	
97'	101'	Coal	
101'	113'	Sandy Shale	
113'	116'	Coal	
116'	153'	Sandy Shale	
153'	158'	Coal	
158'	168'	Sandy Shale	
168'	172'	Coal	
172'	196'	Sandy Shale	Water @ 188'
196'	398'	Sand	
398'	400'	Coal	
400'	578'	Sandy Shale	
578'	635'	Sand	
635'	662'	Sandy Shale	
662'	730'	Sand	
730'	838'	Sandy Shale	
838'	982'	Sand	Water @ 896'
982'	990'	Sandy Shale	
990'	1079'	Sand	
1079'	1092'	Sandy Shale	
1092'	1125'	Sand & Shale	
1125'	1175'	Sand	
1175'	1205'	Sandy Shale	
1204'	1802'	Salt Sand	
2193'	2353'	Upper Maxton	
2530'	2620'	Middle Maxton	



SEP 01 2000

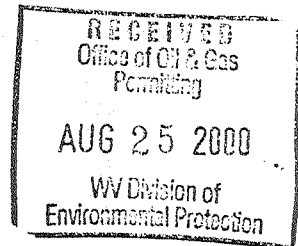
2743'	2775'	Lower Maxton
2815'	2887'	Little Lime
2887'	3218'	Big Lime
3306'	3426'	Weir
3763'	3786'	Sunbury
3786'	3815'	Berea
3815'	4820'	Upper Huron
4074'	4123'	Gordon
4820'	5253'	Lower Huron
5253'	5386'	Java
5386'	5606'	Angola
5606'	5850'	Rhinestreet
5845'		Onondaga
	5849'	TD

GT @ 2926' = NS  
GT @ 3266' & 3298' = NS  
GT @ 3453' = NS

GT @ 3827' = NS

GT @ 5289' = NS

GT @ 5849' = NS



MINCO 1352