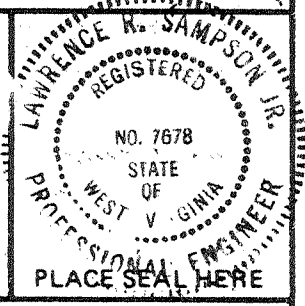


FILE NO. _____
 DRAWING NO. 12-84 "58"
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1"/2500'
 PROVEN SOURCE OF ELEVATION U.S.G.S. 0-180
BRASS DISC. EL. 1408

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) Lawrence R. Sampson Jr.
 R.P.E. 7678 L.L.S. _____



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS 7.5 Min. Series
 FORM IV-6 (8-78)



DATE July 3rd, 19 84
 OPERATOR'S WELL NO. 102-5-308
 API WELL NO. _____
47 - 109 - 0984-7
 STATE COUNTY PERMIT

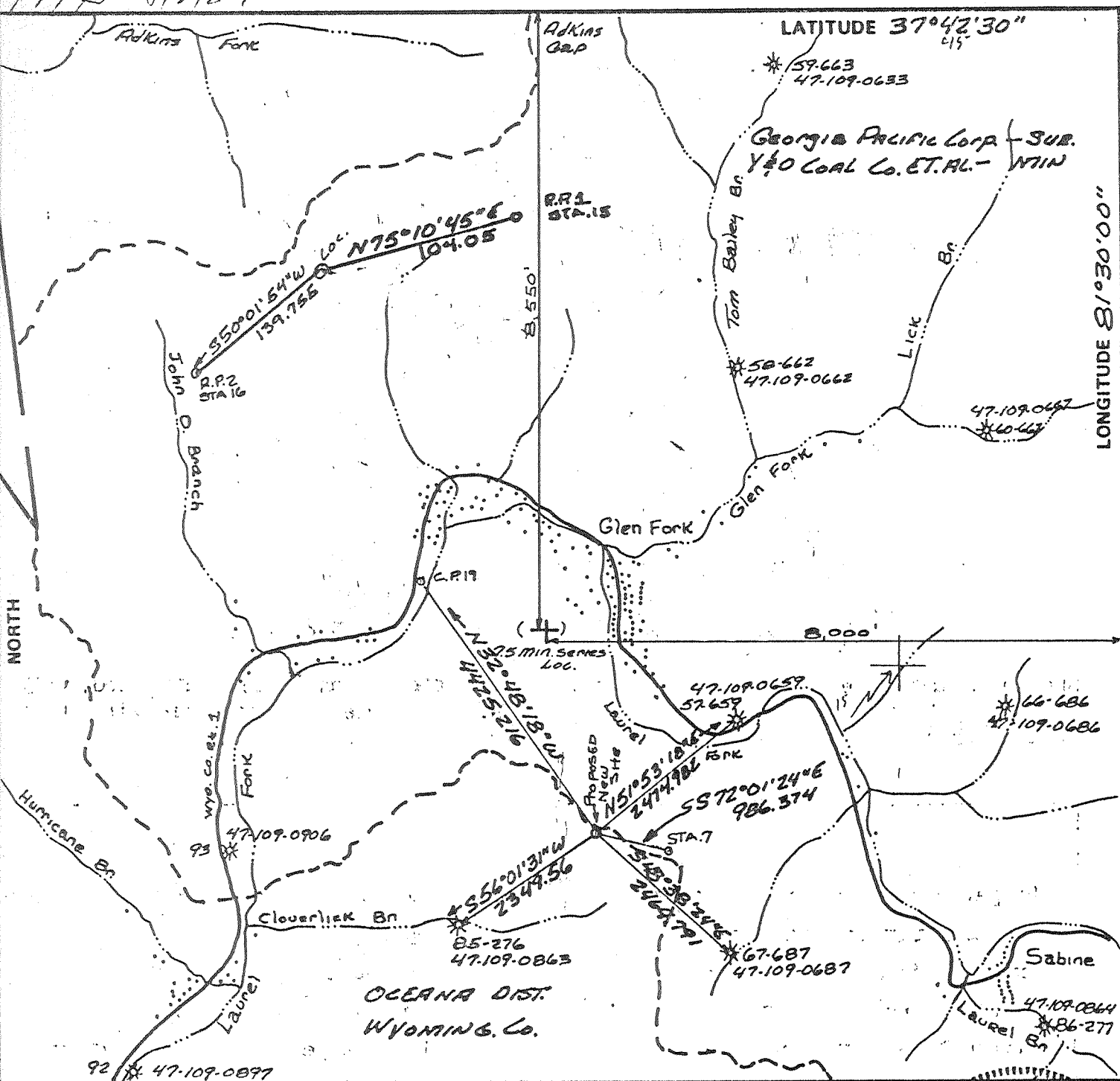
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL _____ GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP SHALLOW _____
 LOCATION: ELEVATION 2147.13 WATER SHED Clouetlick Branch
 DISTRICT Oceana 6 COUNTY Wyoming
 QUADRANGLE Matheny
 SURFACE OWNER Georgia Pacific Corp. ACREAGE 30,482
 OIL & GAS ROYALTY OWNER Y&O Coal Co. LEASE ACREAGE 30,582
 LEASE NO. _____

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

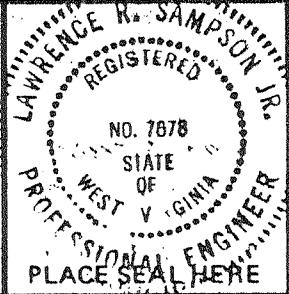
PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Devonian Shale - Marcellus ESTIMATED DEPTH 6700'
 WELL OPERATOR Sonot Exploration DESIGNATED AGENT Dana Blackshire
 ADDRESS P.O. Box 766 ADDRESS P.O. Box 766
Charleston, W.V. 25323 0421 Charleston, W.V. 25323

1772 8/2/84



FILE NO. _____
 DRAWING NO. 12-84 "5B"
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1"/2500'
 PROVEN SOURCE OF ELEVATION U.S.G.S. 0-180 Brass Disc. 61. 140B

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) Lawrence R. Sampson Jr.
 R.P.E. 7678 L.L.S. _____



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS 7.5 MIN. SERIES
 FORM IV-6 (8-78)



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE July 30 19 84
 OPERATOR'S WELL NO. 102-5-308
 API WELL NO. 47-109-0936
 STATE COUNTY PERMIT

Cancelled drilled as 984

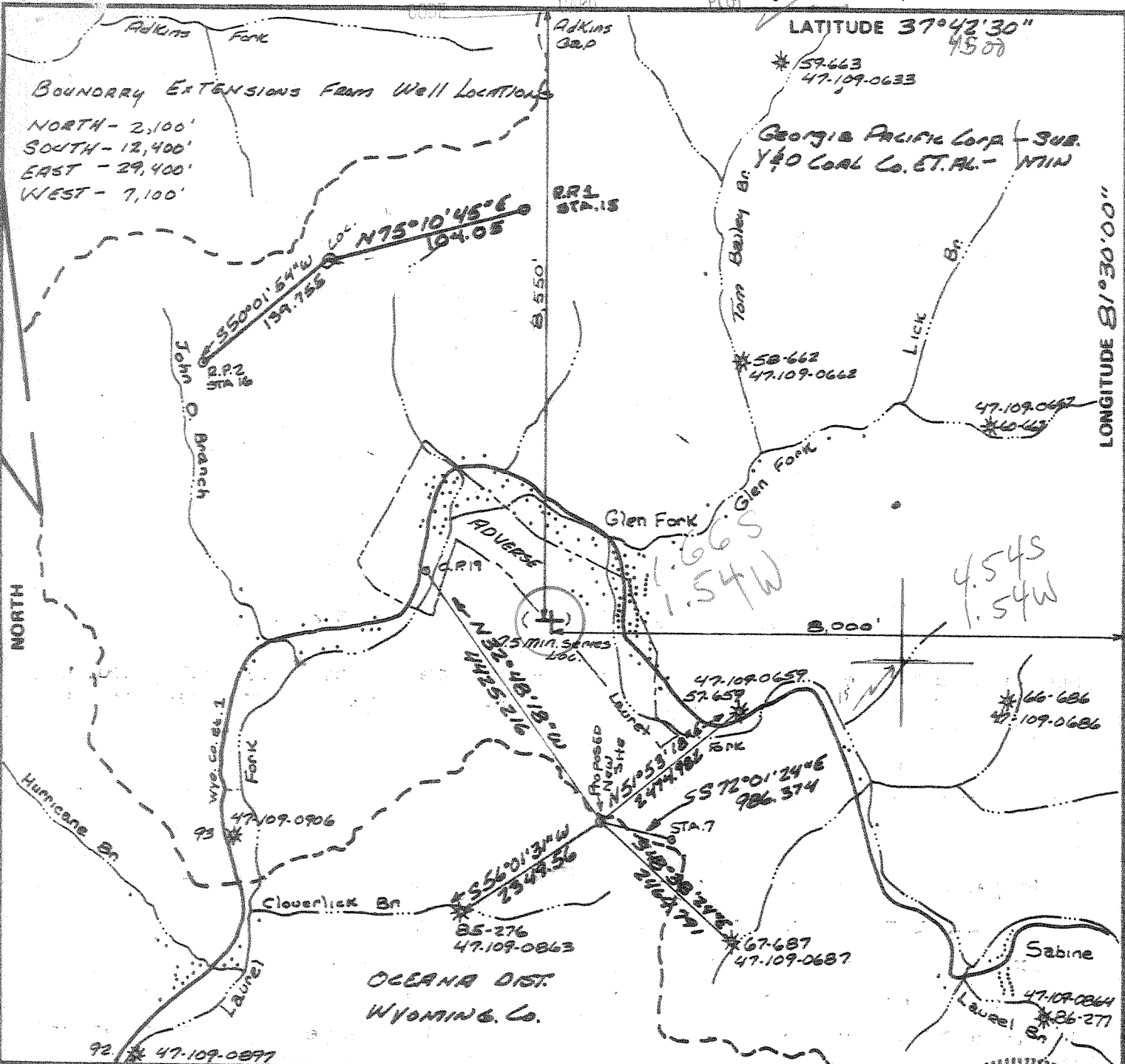
WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 2147.13 WATER SHED Clouetlick Branch
 DISTRICT Oceana COUNTY Wyoming
 QUADRANGLE Matheny
 SURFACE OWNER Georgia Pacific Corp ACREAGE 30,482
 OIL & GAS ROYALTY OWNER Y&O Coal Co. LEASE ACREAGE 30,582
 LEASE NO. _____

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 Bia Line ESTIMATED DEPTH 3350'
 WELL OPERATOR Spartan Gas Co. DESIGNATED AGENT William Ryan
 ADDRESS P.O. Box 766 Charleston, W.V. 25323 ADDRESS P.O. Box 766 Charleston, W.V. 25323

OCT 6 1986

WYO 936



FILE NO. _____
 DRAWING NO. 12-84 58
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1'/2500'
 PROVEN SOURCE OF ELEVATION U.S.G.S. 0-120 Brass Disc. El. 1408

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) Lawrence R. Sampson Jr.
 R.P.E. 7678 L.L.S. _____



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS 7.5 MIN. SERIES
 FORM IV-6 (8-78)



DATE July 30 19 84
 OPERATOR'S WELL NO. 102-5-308
 API WELL NO. _____
47 - 109 - 0984
 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 ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 2197.13 WATER SHED Cloverlick Branch
 DISTRICT Oceana COUNTY Wyoming
 QUADRANGLE Matheny 463 106 N 3 Pineville
 SURFACE OWNER Georgia Pacific Corp ACREAGE 30,482
 OIL & GAS ROYALTY OWNER Y&O Coal Co. LEASE ACREAGE 30,582

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Devonian Shale - Marcellus ESTIMATED DEPTH 6700'
 WELL OPERATOR Sonot Exploration DESIGNATED AGENT William Ryan
 ADDRESS P.O. Box 766 721 Charleston, W.V. 25323 ADDRESS P.O. Box 766 Charleston, W.V. 25323

DEEP WELL 3-3 McGraws (248) DPD Dev sh

CONFIDENTIAL



IV-35
(Rev 8-81)

Date November 26, 1985

Operator's
Well No. 102-S-308

State of West Virginia

Department of Energy
Oil and Gas Division

Farm Y & O Coal Co.

API No. 109-984

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109-984

DEC 11 1985

W. VA. OIL & GAS
CONSERVATION COMMISSION

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 X / Underground Storage ___ / Deep X / Shallow ___ /)

LOCATION: Elevation: 2123.807 Watershed Cloverlick Branch of Laurel Fork

District: Oceana County Wyoming Quadrangle Matheny 7.5'

COMPANY Sonat Exploration Company

ADDRESS P. O. Box 766 - Charleston, WV 25323

DESIGNATED AGENT William M. Ryan

ADDRESS P. O. Box 766 - Charleston, WV 25323

SURFACE OWNER Georgia Pacific Corp.

ADDRESS P.O. Box 105605 - Atlanta, GA 30348

MINERAL RIGHTS OWNERY & O Coal Company

ADDRESS P.O. Box 1000 - St. Clairsville, OH 43950

OIL AND GAS INSPECTOR FOR THIS WORK Arthur

St. Clair ADDRESS P.O. Box 157-Brenton, WV 24818

PERMIT ISSUED August 1, 1985

DRILLING COMMENCED 9-17-85

DRILLING COMPLETED 10-01-85

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20 -16 Cond.	20	20	10 sx.
13-10"			
9 5/8	1515.86	1515.86	To Surf.
8 5/8			
7	3627.54	3627.54	150 sx.
5 1/2			
4 1/2		6743.07	210 sx.
3			
2-3/8		6266.20	w/AD-1
Liners used			Packer @ 4189.25

GEOLOGICAL TARGET FORMATION Devonian "Brown" Shale Depth 6700' feet

Depth of completed well 6781 feet Rotary X / Cable Tools

Water strata depth: Fresh 635 feet; Salt 1775'2730' feet

Coal seam depths: 1290, 1492 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian "Brown" Shale Pay zone depth 5402-6270 feet

Gas: Initial open flow TSTM Mcf/d Oil: Initial open flow n/a Bbl/d

Final open flow 700 Mcf/d Final open flow n/a Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1080 psig (surface measurement) after 114 hours shut in

(If applicable due to multiple completion--)

Second producing formation Gordon Pay zone depth 4081-4120 feet

Gas: Initial open flow TSTM Mcf/d Oil: Initial open flow n/a Bbl/d

Final open flow 267 Mcf/d Oil: Final open flow n/a Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 620 psig (surface measurement) after 113 hours shut in

OF for
well
967 Mcf

FEB 23 1987

(Continue on reverse side)

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

Shale 1st Stage: Perf. w/35 holes from 6270 to 5995'. Spot 12 bbl. 28% HCl. B.D. 3500#
w Phreestreet frac w/80 quality foam. Total water 350 bbl. Total sand laden fluid 225 bbl.
 1,352 M SCF N₂, 60,000# sd., ATR 45 BPM, ATP 3,500#, I.S.I.P. 2,200#,
 15 min. SI 1,875#.

2nd Stage: Perf. w/38 holes from 5668 to 5402'. Set big mouth plug @ 5779'. Spot
w Huron 16 bbl. 28% HCl. Frac w/80 quality foam. Total water 265 bbl., total
 sand laden fluid 190 bbl., 819 M SCF N₂, 60,000 sd., ATR 45 BPM, ATP 3,400#.
 I.S.I.P. 1,950#, 15 min. SI 1,625#.

Gordon: Perf. w/22 holes from 4101 to 4113'. Spot 12 bbl. 28% HCl. Frac w/663 bbl.
 fluid, 525 bbl. sand laden fluid, 60,000# sd., ATP 419#, ATR 26 BPM,
 I.S.I.P. Vacuum, B.D. Hydrostatic Pressure.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
Sand & Shale			0	635	
Sand			635	1076	Fresh water @ 635'
Sand & Shale			1076	1290	
Coal			1290	1310	
Sand			1310	1492	
Coal			1492	1497	
Sand			1497	1550	
Shale			1550	1570	
Sand & Shale			1570	1750	
Sand			1750	1890	Salt water @ 1775'. Dried Up.
Shale			1890	1915	
Sand & Shale			1915	1975	
Ravencliff			1975	1990	
Avis			1990	2072	
Red Rock			2072	2225	
Sand			2225	2260	
Shale, Red Rock, Sand			2260	2315	
Sand & Shale			2315	2435	
Maxon			2435	2513	
Sand & Shale			2513	2584	
Maxon			2584	2800	Salt water @ 2730'
Little Lime			2800	2890	
Pencil Cave			2890	2940	
Big Lime			2940	3315	Gas check @ 3105' 0/10 w/1" 45 M
Red Rock & Shale			3315	3345	Gas check @ 3201' 26/10 w/1" 54 M
Shale			3345	3430	Gas check 10/10 w/1"
Wier			3430	3440	
Shale			3440	3760	
Shale & Sand			3760	3940	
Berea			3940	3955	
Sand & Shale			3955	4120	
Shale			4120	6750	
Corniferous			6750	6781	Gas check @ TD-T.S.T.M. in 1"
<u>D.T.D.</u>				6781	

(Attach separate sheets as necessary) (SEE SHEET NO.2)

Sonat Exploration Company

Well Operator

By:

Stephen Z. Barrett

Date:

November 26, 1985

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."

Sheet No. 2

Well Operator: Sonat Exploration Co.

DATE: November 26, 1985

OPERATOR'S

WELL NO. 102-S-308

FARM: Y & O Coal Co.

API NO. 47-109-0984

✓*E - Log Depths

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Princeton			1829	1878	
Ravenclyff			1964	2019	
Avis			2019	2059	
Middle Maxon			2481	2503	
Lower Maxon			2710	2798	
Little Lime			2800	2874	
Pencil Cave			2874	2935	
Big Lime			2935	3305	
Weir Horizon			3491	3575	
Coffee Shale			3916	3932	
Berea			3932	3956	
Gordon			4081	4120	
Brown Shale			5406	5689	
Brown Shale			6118	6536	
Marcellus			6639	6728	
Corniferous			6728	6760	
L.T.D.				6760	

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 DEC 11 1985
 W. VA. OIL & GAS
 CONSERVATION COMMISSION

expl below Gordon

404 3956
 813 5106
 822 5756
 825 5906
 830 6206

6781
 4120
 2661 expl ftg.

FEB 23 1987

RECEIVED
FILE COPY

JUL 18 1984



1) Date: June 6, 1984
 2) Operator's Well No. 102-S-308
 3) API Well No. 47 - 109 - 0936
 State County Permit

OIL & GAS DIVISION
DEPT. OF MINES
 STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas / B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: ~~2128X607X~~ 2147.13 Watershed: Cloverlick Branch of Laurel Fork (OGC16G)
 District: Oceana County: Wyoming Quadrangle: Matheny 7.5'
- 6) WELL OPERATOR Spartan Gas Company 7) DESIGNATED AGENT William M. Ryan
 Address P. O. Box 766 Address P. O. Box 766
Charleston, WV 25323 Charleston, WV 25323
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Arthur St. Clair Name Smith Drilling Co., Inc.
 Address P. O. Box 157 Address P. O. Box 150
Brenton, WV 24818 Lawrenceville, IL 62439
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Big Lime
- 12) Estimated depth of completed well, 3350' feet
- 13) Approximate trata depths: Fresh, _____ feet; salt, _____ feet.
- 14) Approximate coal seam depths: 570'; 980'; 1180'; Is coal being mined in the area? Yes / No
- 15) CASING AND TUBING PROGRAM 1310'; 1460'

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	9-5/8"		36	X		30'	30'	By Hand	Kinds
Fresh water									
Coal	7"	J-55	20	X		1380' <u>1490'</u>	1280' <u>1490'</u>	To Surface	by rule 15.05
Intermediate									
Production	4.5"	J-55	9.5	X			3350'	100 sks.	Depths set
Tubing	2-3/8"		4.7				3350'		or as req. by rule 15.01
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-109-0936 Date August 7 19 84

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires August 7, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <u>LS</u>	Plat: <u>MU</u>	Casing: <u>MU</u>	Fee: <u>14483</u>
BLANKET				

[Signature]
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

WR-35

RE
Environmental Protection



Reviewed TM6
Recorded _____

JUN 12 92

Permitting State of West Virginia
Office of Oil & Gas DEPARTMENT OF ENERGY
Oil and Gas Division

Date _____
Operator's _____
Well No. 102-S-308
Farm Y & O Coal Co.
API No. 47-109-0984F

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: 2,123.8 Watershed Cloverlick Branch of Laurel Fork
District: Oceana County Wyoming Quadrangle Matheny 7.5'

ELEV ?
CAN'T TELL
FROM TOPS
MAY BE 8147 CORRECT
40' CANSURES

COMPANY Sonat Exploration Co.
ADDRESS P.O. Box 766, Charleston, WV 25323
DESIGNATED AGENT Dana Blackshire
ADDRESS PO Box 766, Charleston, WV 25323
SURFACE OWNER Georgia-Pacific Corp.
ADDRESS PO Box 105605, Atlanta, GA 30348
MINERAL RIGHTS OWNER Y & O Coal Co.
ADDRESS 328 North Lake Drive, Prestonsburg, KY 41653
OIL AND GAS INSPECTOR FOR THIS WORK
Rod Dillon ADDRESS PO Box 131, Bradley, WV 25818
PERMIT ISSUED 11-29-89
DRILLING COMMENCED Rework 12-6-89
DRILLING COMPLETED Rework 1-4-90
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.	20	20	10sx
13-10"			
9 5/8	1515.86	1515.86	To Surf
8 5/8			
7	3267.54	3267.54	150sx
5 1/2			
4 1/2	6743.07	3280	210sx
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Recomplete to Big Lime and Ravencliff Depth 3,463 feet
Depth of completed well 6,781 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 635 feet; Salt 1,775 feet
Coal seam depths: 1,290 , 1,492 Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Ravencliff & Big Lime pay zone depth 2,000/3,100 feet
Gas: Initial open flow 180 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 120 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 72 hours
Static rock pressure 240 psig (surface measurement) after 96 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ 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)

JUN 22 1992

Date: February 6, 1990

Operator's Well No. Y&O Coal #102

API Well No. 47 - 109 - 0984 F
State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

WELL OPERATOR'S REPORT
 OF
INITIAL GAS-OIL RATIO TEST

WELL OPERATOR Sonat Exploration Co.
 Address P. O. 1513
Houston, TX 77251-1513

DESIGNATED AGENT Dana Blackshire
 Address P. O. Box 766
Charleston, WV 25323

GEOLOGICAL TARGET FORMATION: Ravencliff & Big Lime Depth 3315 feet
 Perforation Interval 1,994 - 2,006 feet
3,010 - 3,017
3,097 - 3,102

GUIDELINES FOR TESTING:

- 1- A minimum of gas vented or flared
- 2- A 24 hour preflow into pipelines or tanks
- 3- Uniform producing rate during the 24 hour test per test period
- 4- Measurement standards as for Form IV-39, "Report of Annual Production" (see Regulation 21.21)
- 5- Separate Form IV-36 for each producing formation in a multiple completion

TEST DATA					
START OF TEST-DATE <u>1-04-90</u>	TIME <u>10:00am</u>	END OF TEST-DATE <u>1-08-90</u>	TIME <u>10:00am</u>	DURATION OF TEST <u>4 days/96 hrs.</u>	
TUBING PRESSURE	CASING PRESSURE <u>240#</u>	SEPARATOR PRESSURE	SEPARATOR TEMPERATURE		
OIL PRODUCTION DURING TEST <u>0</u> bbls.	GAS PRODUCTION DURING TEST <u>600</u> Mcf	WATER PRODUCTION DURING TEST & SALINITY <u>0</u> bbls. <u>0</u> grs.			
OIL GRAVITY <u>0</u>	PRODUCING METHOD (Flowing, pumping, gas lift, etc.) <u>Flowing</u>				

GAS PRODUCTION					
MEASUREMENT METHOD FLANGI IAP <input checked="" type="checkbox"/> PIPE IAP <input type="checkbox"/> L-10 <input type="checkbox"/>			POSITIVE CHOKI CRITICAL FLOW PROVER <input type="checkbox"/>		
ORIFICE DIAMETER <u>1"</u>	PIPE DIAMETER (INSIDE DIAM.) <u>2"</u>		NOMINAL CHOKE SIZE - IN.		
DIFFERENTIAL PRESSURE RANGE <u>100"</u>	MAX. STATIC PRESSURE RANGE <u>250</u>		PROVER & ORIFICE DIA. - IN.		
DIFFERENTIAL <u>7"</u>	STATIC <u>40#</u>		GAS GRAVITY (AIR-1.0) MEASURED _____ ESTIMATED _____		
GAS GRAVITY (AIR-1.0)	FLOWING TEMPERATURE <u>60°</u>		GAS TEMPERATURE _____ °F		
24 HOUR COEFFICIENT.			24 HOUR COEFFICIENT _____		
PRESSURE - _____ psia					

TEST RESULTS					
DAILY OIL <u>0</u> bbls.	DAILY WATER <u>0</u> bbls.	DAILY GAS <u>120</u> Mcf.	GAS-OIL RATIO * <u>0</u> SCF/STB		

Sonat Exploration Co.
 Well Operator
 By: Dana Blackshire
 (Dana Blackshire)
 Its: Designated Agent

RECEIVED
 WV Division of
 Environmental Protection
 JUN 12 92
 Permitting
 Office of Oil & Gas

JUN 22 1992