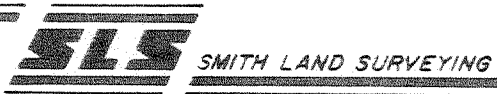
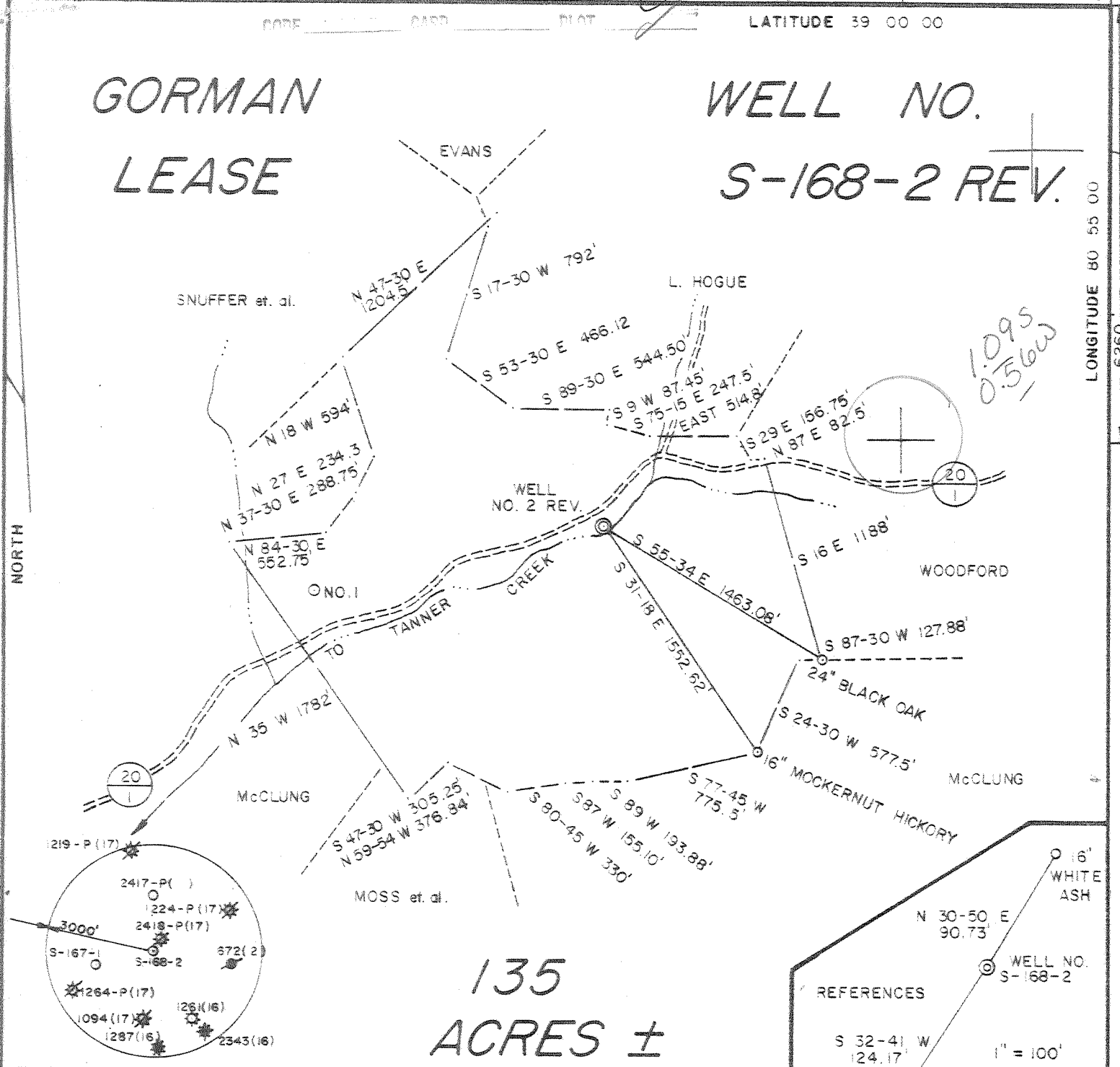


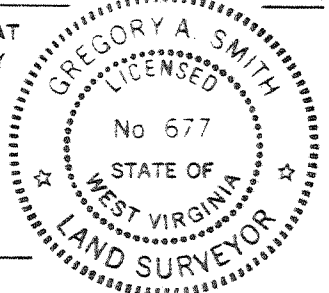
# GORMAN LEASE

# WELL NO. S-168-2 REV.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 DATE NOVEMBER 12TH, 1985  
 OPERATORS WELL NO. GORMAN NO. 2 REV.  
 API WELL NO. S-168-2 REV.  
47 - 021 - 4433  
 STATE COUNTY PERMIT

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.  
 L.L.S. 677 Gregory A. Smith



MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 17-27  
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEV. 906' SCALE 1" = 800'



STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION

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

LOCATION: ELEVATION 916' WATERSHED TANNER CREEK DISTRICT DEKALB 2 COUNTY GILMER QUADRANGLE TANNER 7.5' 634  
 SURFACE OWNER GENE STALNAKER ACREAGE 135 050  
 OIL & GAS ROYALTY OWNER CATHERINE GORMAN LEASE ACREAGE 135 NW1

PROPOSED WORK: 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 TONOLWAY ESTIMATED DEPTH 8600'

WELL OPERATOR GENE STALNAKER, INC. 833 DESIGNATED AGENT GENE STALNAKER  
 ADDRESS P.O. BOX 178, GLENVILLE, WY. ADDRESS P.O. BOX 178, GLENVILLE, WY.

Longwood

Rec'd 2/6/86



Confidential

W-35

State of West Virginia DEPARTMENT OF ENERGY Oil and Gas Division

Date January 31, 1986 Operator's Well No. Gorman S-168-2 Farm Gorman API No. 47-021-4433

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: 916 Watershed Tanner Creek District: Dekalb ? County Gilmer Quadrangle Tanner 7.5 633

COMPANY Gene Stalnaker, Inc. ADDRESS P.O. Box 178, Glenville, WV DESIGNATED AGENT Gene Stalnaker, Inc. ADDRESS P.O. Box 178, Glenville, WV 26351 SURFACE OWNER Gene Stalnaker ADDRESS Box 9, Letter Gap, WV MINERAL RIGHTS OWNER Catherine Gorman ADDRESS Sanford, North Carolina OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace ADDRESS Sandridge, WV PERMIT ISSUED 12-6-85 DRILLING COMMENCED 12-11-85 DRILLING COMPLETED 12-21-85 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 11 3/4, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Tonoloway Depth 8600 feet Depth of completed well 6502.15 feet Rotary x / Cable Tools Water strata depth: Fresh 90 feet; Salt feet Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA Producing formation Oriskany Pay zone depth 6379-6420 feet Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d Final open flow 300 Mcf/d Oil: Final open flow Bbl/d Time of open flow between initial and final tests hours Static rock pressure 1325# psig (surface measurement) after 24 hours shut in (If applicable due to multiple completion--)

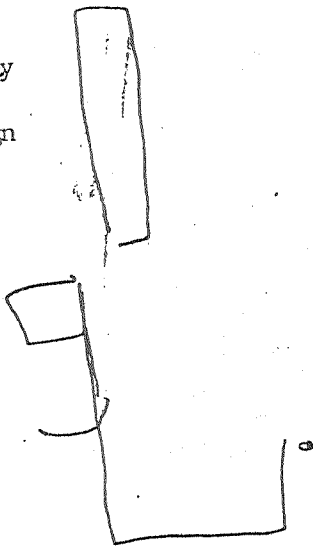
(Continue on reverse side)

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

Stage 1                      6380-6419 *Oriskany*                      16 holes  
 15,000# 80/100, 30,000# 20/40, 644 BBL H<sub>2</sub>O, 100,000 cu. ft. N<sub>2</sub>  
 3750 gallon HCL.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
fill			0	10	
sandstone & shale			10	100	
sandstone & shale			100	500	
sandstone & shale			500	1000	
sandstone & shale			1000	1500	
sandstone & shale			1500	1572	
sandstone			1572	1625	
shale			1625	1712	
silty sandstone			1712	1786	
Big Lime			1786	1820	
<u>Big Injun</u>			1820	1968	
shale			1968	2046	
<u>Water</u>			2046	2219	
shale			2219	2222	
<u>Berea</u>			2222	2301	
shale			2301	2306	
Gordon Stray			2306	2322	
Shale			2322	2328	
<u>Gordon</u>			2328	3006	
shale			3006	3078	
Warren			3078	3465	
shale			3465	3502	
<del>Sperry</del>			3502	3719	
shale			3719	3775	
<u>Balltown</u>					



(Attach separate sheets as necessary)

Gene Stalnaker, Inc.

Well Operator

By: *Gene Stalnaker*

Date: *2-1-86*

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 those encountered in the drilling of a well."

shale	3775	4114
First Riley	4114	4163
shale	4163	4374
Second Riley	4374	4405
shale	4405	4486
Benson	4486	4511
shale	4511	4696
Alexander	4696	4772
shale	4772	4883
First Elk	4883	4897
shale	4897	4917
Second Elk	4917	4929
shale	4929	5952
Sonyea	5952	5997
shale	5997	6065
Genesee	6065	6095
Marcellus	6095	6150
Onondaga	6150	6193
lime	6193	6379
Oriskany	6379	6420
lime <i>red.</i>	6420	6640

         TD.

CS  
1249  
          
2776

6640  
3775  
          
9840 *exp. fig.*

(Obverse)  
7/85

**RECEIVED**  
NOV 27 1985



1) Date: November 25, 1985  
 2) Operator's Well No. Gorman S-168-2 Rev.  
 3) API Well No. 47-021-4433  
 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

STATE OF WEST VIRGINIA

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY, OIL AND GAS DIVISION  
 DEPARTMENT OF ENERGY APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil \_\_\_\_\_ / Gas X /  
 B (If "Gas", Production X / Underground storage \_\_\_\_\_ / Deep X / Shallow \_\_\_\_\_ /)
- 5) LOCATION: Elevation: 916 Watershed: Tanner Creek  
 District: Dekalb 833 County: Gilmer Quadrangle: Tanner 7.5
- 6) WELL OPERATOR G. Stalnaker, Inc. CODE: 46925 7) DESIGNATED AGENT Gene Stalnaker  
 Address P.O. Box 178 Address P.O. Box 178  
Glenville, WV 26351 Glenville, WV 26351
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Deo Mace Name Gene Stalnaker, Inc.  
 Address Sand Ridge, WV Address P.O. Box 178  
655-7398 Glenville, WV 26351
- 10) PROPOSED WELL WORK: Drill X / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate X /  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_ /  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Tonoloway 515  
 12) Estimated depth of completed well, 8600 feet:  
 13) Approximate trata depths: Fresh, 100 & 250 feet; salt, \_\_\_\_\_ feet.  
 14) Approximate coal seam depths: n/a Is coal being mined in the area? Yes \_\_\_\_\_ / No X /
- 15) 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		40'			Kinds
Fresh water						280'	280'	CTS	
Coal									Sizes
Intermediate	8 5/8	CW	20	X		2100	800 ?	To Cover Salt	Sands
Production	4 1/2	ERW	10.5	X			8600'	Fill Up	Depths se:
Tubing									
Lin...									Perforations:
									Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-021-4433 Date December 6 19 85

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 December 6, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee	WPCP	S&E	Other
	<u>FW</u>	<u>MAU</u>	<u>MAU</u>	<u>1015-1016</u>	<u>MAU</u>	<u>MAU</u>	

NOTE: Keep one copy of this permit posted at the drilling location. [Signature] Director, Division of Oil and Gas