

FILE NO. BK 65 P105  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1-200  
 PROVEN SOURCE OF ELEVATION USGS BMTT 24  
1st Rts 21 & 21/7 E.L. 812.21'

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) C. S. Volley Jr.  
 R.P.E. \_\_\_\_\_ D.S. 92

PLACE SEAL HERE

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



DATE JAN 2, 1982  
 OPERATOR'S WELL NO. ONE  
 API WELL NO. 47-039-3797-P  
 STATE COUNTY PERMIT

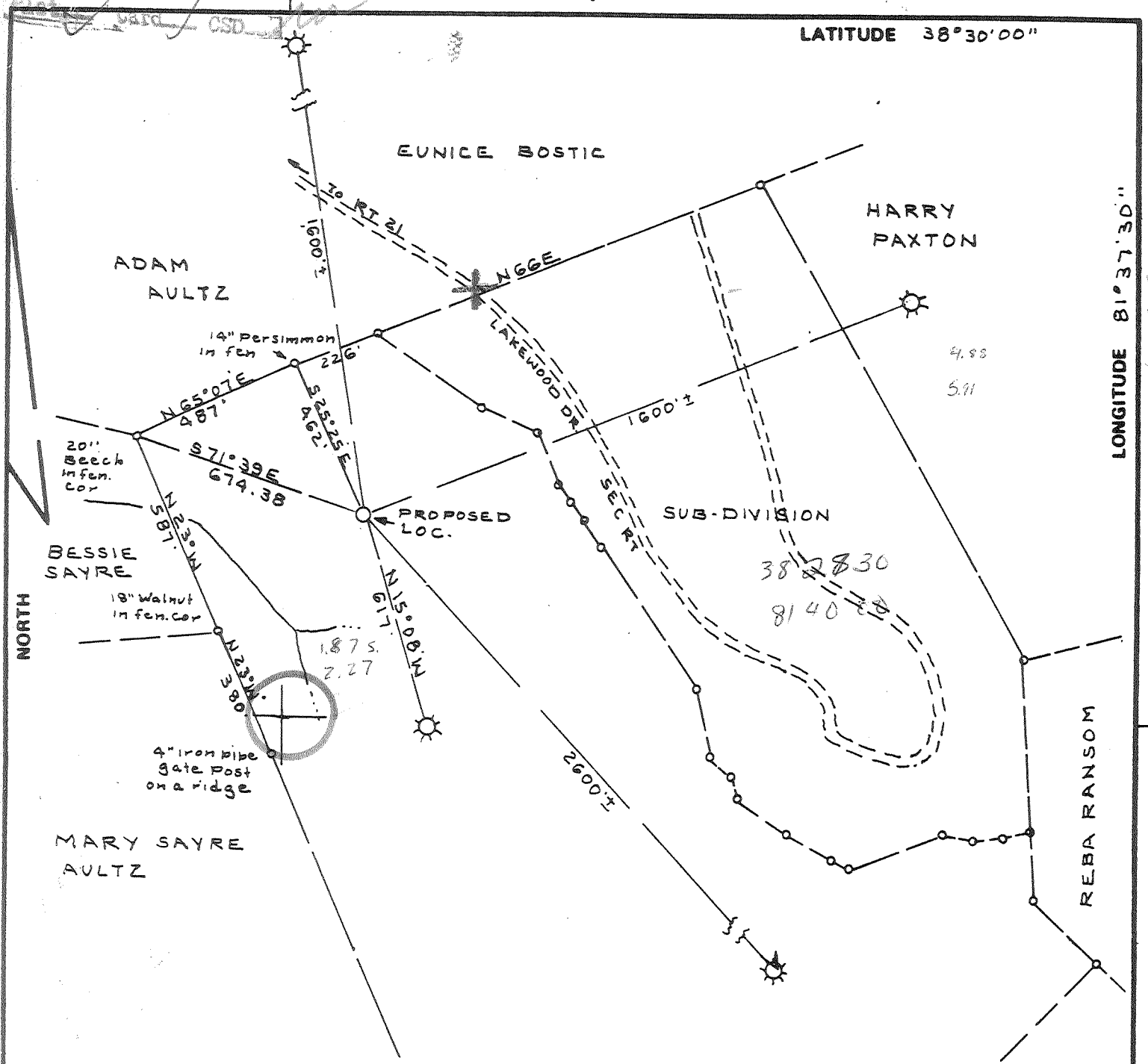
STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
 LOCATION: ELEVATION 951.46' WATERSHED TUPPERS CREEK  
 DISTRICT UNION COUNTY KANAWHA  
 QUADRANGLE P0CATALICO 7.5' Charleston 15' NC  
 SURFACE OWNER MARY SAYRE AULTZ ACREAGE 89.5  
 OIL & GAS ROYALTY OWNER MARY SAYRE AULTZ LEASE ACREAGE 89.5  
 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 DRISKNEY ESTIMATED DEPTH 4950'  
 WELL OPERATOR BURDETTE OIL & GAS DESIGNATED AGENT MICHAEL BURDETTE  
 ADDRESS P.O. BOX 10167 STATION "C" ADDRESS P.O. BOX 10167 STATION "C"  
CHARLESTON WVA 25312 CHARLESTON WVA 25312

DEEP WELL

MAY 24 1982



FILE NO. BK 65 P105  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1-200  
 PROVEN SOURCE OF ELEVATION USGS SMTT 24  
1st Rts 21 & 21/7 EL. 812.21'

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DATE JAN 2, 1982  
 OPERATOR'S WELL NO. one  
 API WELL NO. 47-039-3797  
 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 X STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
 LOCATION: ELEVATION 951.46' WATERSHED TUPPERS CREEK  
 DISTRICT UNION COUNTY KANAWHA  
 QUADRANGLE POCATAHOCO 7.5' Charleston 13' NC  
 SURFACE OWNER MARY SAYRE AULTZ ACREAGE 89.5  
 OIL & GAS ROYALTY OWNER MARY SAYRE AULTZ LEASE ACREAGE 89.5  
 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 ORISKNEY ESTIMATED DEPTH 4950'  
 WELL OPERATOR BURDETTE OIL & GAS DESIGNATED AGENT MICHAEL BURDETTE  
 ADDRESS P.O. BOX 10167 STATION "C" ADDRESS P.O. BOX 10167 STATION "C"  
CHARLESTON WVA. 25312 CHARLESTON WVA 25312



Well No. One  
Farm Mary Sayre Aultz  
API # 47 - 039 - 3797  
Date January 4, 1982

STATE OF WEST VIRGINIA  
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

LOCATION: Elevation: 951'46 Watershed: Tappara Creek  
District: Union County: Kanawha Quadrangle: Pocatalico 7.5'

WELL OPERATOR Burdette Oil & Gas Co., Inc. DESIGNATED AGENT Michael A. Burdette  
Address P. O. Box 10167, Station 707 Address None  
Charleston, W.Va. 25312

OIL AND GAS ROYALTY OWNER Mary Sayre Aultz  
Address 6271 Sissonville Drive  
Charleston, W.Va.  
Acreage 89.5

COAL OPERATOR \_\_\_\_\_  
Address \_\_\_\_\_

SURFACE OWNER \_\_\_\_\_  
Address \_\_\_\_\_  
Acreage \_\_\_\_\_

COAL OWNER(S) WITH DECLARATION ON RECORD:  
NAME \_\_\_\_\_  
Address \_\_\_\_\_  
NAME \_\_\_\_\_  
Address \_\_\_\_\_

FIELD SALE (IF MADE) TO:  
NAME \_\_\_\_\_  
Address \_\_\_\_\_

COAL LESSEE WITH DECLARATION ON RECORD:  
NAME \_\_\_\_\_  
Address \_\_\_\_\_

OIL AND GAS INSPECTOR TO BE NOTIFIED:  
NAME Martin Nichols  
Address P. O. Box 534  
Clendenia, W.Va. 25945  
Telephone 540-6993

**RECEIVED**

JAN 7 - 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed  / lease  / other contract  / dated Dec. 3, 1981, to the undersigned well operator from Mary Sayre Aultz.

(If said deed, lease, or other contract has been recorded:)  
Recorded on Dec. 29, 1981, in the office of the Clerk of County Commission of Kanawha County, West Virginia, in 211 Book at page 243. A permit is requested as follows:

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

--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 §22-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Dept. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1613 WASHINGTON ST., E.  
CHARLESTON, WV 25311  
Telephone - 304/348-3092

Burdette Oil & Gas Co., Inc.  
Well Operator  
By: Michael A. Burdette  
Its: Executive Vice President

BLANKET BOND

(Revised 3-81)

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Burdette Drilling Co.  
Address P. O. Box 10167, Station "C"  
Charleston, W. Va. 25312

GEOLOGICAL TARGET FORMATION Oriskany  
Estimated depth of completed well 5150' feet. Rotary X / Cable tools     /  
Approximate water strata depths: Fresh, 30' feet; salt, 1300' feet.  
Approximate coal seam depths:      
Is coal being mined in this area: Yes     / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS Cubic ft	PACKERS	
	Size	Grade	Weight per ft	New	Used	For Drill-ling	Left in Well			
Conductor	<u>13-3/8"</u>			<u>X</u>		<u>250</u>	<u>250</u>	<u>To 5150'</u>		
Fresh water										
Coal								<u>CTS</u> Sizes		
Intermed.	<u>8-5/8"</u>			<u>X</u>		<u>2100</u>	<u>2100</u>	<u>100 sacks</u>		
Production Tubing	<u>4 1/2"</u>			<u>X</u>		<u>5150</u>	<u>5150</u>	<u>100 sacks</u>	Depths set	
Liners								<u>at 50-50-20.</u>	Perforations:	
	<u>2-3/8" set through the Berea and</u>								Top	Bottom
	<u>4 1/2" cemented back over the Marcellus shale</u>									
	<u>so brown shale can be open hole fractured</u>									

**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 13, or in lieu thereof the other security allowed by Code §22-4-5, (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 §22-4-13a, and (v) if applicable, the consent required by Code §22-4-3d 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 9-11-82.

Jeff Burdette  
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 regularions.

Date:    , 19    .

By:    

Its:

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS WELLS DIVISION

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE. ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

COAL OPERATOR OR OWNER \_\_\_\_\_ Burdette Oil & Gas Co., Inc.  
NAME OF WELL OPERATOR  
 ADDRESS \_\_\_\_\_ P.O. Box 10167 Sta. "C", Charleston, WV  
COMPLETE ADDRESS  
 COAL OPERATOR OR OWNER \_\_\_\_\_ May 28, 19 82  
WELL AND LOCATION  
 ADDRESS \_\_\_\_\_ JUN 11 1982 Union District  
LEASE OR PROPERTY OWNER OIL AND GAS DIVISION Kanawha County  
WV DEPARTMENT OF MINES  
 ADDRESS \_\_\_\_\_ Well No. 1  
 Mary Sayre Aultz Farm

STATE INSPECTOR SUPERVISING PLUGGING Martin Nichols

AFFIDAVIT

STATE OF WEST VIRGINIA,

County of Kanawha

*Rickey B. Duckworth* and

being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Burdette Oil & Gas Co., Inc., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 28 th day of May, 19 82, and that the well was plugged and filled in the following manner:

SAND OR ZONE RECORD FORMATION	FILLING MATERIAL	PLUGS USED SIZE & KIND	CASINGS	
			CSG PULLED	CSG LEFT IN
	4 1/2" cut where drill pipe was stuck.	200' Neat Cem.	1380'	3740'
	8 5/8" cut at free point	200' Neat Cem.	1380'	760'
	Plug set at bottom of conductor pipe.	100' Neat Cem.	0	250'
	Plug set to surface.	50' Neat Cem.	0	0
	Monument set and marked.			
COAL SEAMS				
(NAME)			DESCRIPTION OF MONUMENT	
(NAME)			8 5/8" - 30" above surface.	
(NAME)				
(NAME)				

and that the work of plugging and filling said well was completed on the 28 th day of May, 19 82

And further deponents saith not.

*Rickey B. Duckworth*

Sworn to and subscribed before me this 9<sup>th</sup> day of June, 19 82

*Mike Burdette*  
Notary Public

My commission expires:  
May 13, 1987

Permit No. 47-039-3797



IV-35  
(Rev 8-81)

Date 21 May 1982  
Operator's  
Well No. 1  
Farm Mary Sayre Aultz  
API No. 47 - 039 - 3797

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 x / Underground Storage     / Deep x / Shallow     /)

LOCATION: Elevation: 951.46 Watershed Tuppers Creek  
District: Union County Kanawha Quadrangle Pocatalico 7.5

COMPANY Burdette Oil & Gas Co., Inc.  
ADDRESS P.O. Box 10167, Sta. "C", Chas, WV  
DESIGNATED AGENT Michael A. Burdette  
ADDRESS Charleston, WV  
SURFACE OWNER Mary Sayre Aultz  
ADDRESS 6271 Sissonville Dr., Chas., WV  
MINERAL RIGHTS OWNER Mary Sayre Aultz  
ADDRESS 6271 Sissonville Dr., Chas, WV  
OIL AND GAS INSPECTOR FOR THIS WORK      
Martin Nicholas ADDRESS Box 554, Clendenin, WV  
PERMIT ISSUED January 11, 1982  
DRILLING COMMENCED January 18, 1982  
DRILLING COMPLETED February 5, 1982  
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.			
13-10"	250	250	Surface
9 5/8			
8 5/8	2100	2100	100 sks
7			
5 1/2			
4 1/2	5120	5120	1700 ft. Fill up
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Depth 5068 feet  
Depth of completed well 5120 feet Rotary x / Cable Tools      
Water strata depth: Fresh 160 feet; Salt 1275 feet  
Coal seam depths:     Is coal being mined in the area?    

OPEN FLOW DATA  
Producing formation     Pay zone depth     feet  
Gas: Initial open flow     Mcf/d Oil: Initial open flow     Bbl/d  
Final open flow     Mcf/d 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  
(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

MAY 24 1982

(Continue on reverse side)

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

Drill pipe stuck in hole, well to be abandoned and plugged

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand, Shale & RED Rock			0	1000	
Shale			1000	1180	
Sand			1180	1275	
Salt Sand			1275	1734	
Little Lime			1734	1765	
Pencil Cave			1765	1770	
Big Lime			1770	1955	
Injun Sand			1955	2005	
Shale			2005	2350	
Coffee Shale			2350	2388	
Berea			2388	2402	
Shale			2402	4942	
Corniferous			4942	5046	
Oriskany			5046	5090	
Lime <i>HEAD.</i>			5090	5120	

(Attach separate sheets as necessary)

Burdette Oil & Gas, Inc.  
Well Operator

By: \_\_\_\_\_

Date: 21 May 1982

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."