

Minimum Error of Closure Less than 1 in 7,200  
 Source of Elevation USGS BM#165 RHP on Pickenpaw Run Road  
Elev. = 980 (979.89)

Fracture.....   
 New Location.....   
 Drill Deeper.....   
 Abandonment.....

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: *C. D. Locke*  
 Squares: N S E W

Map No. \_\_\_\_\_

Company U.S. Energy Research and Development Administration  
 Address P.O. Box 880, Morgantown, WV 26505  
 Farm Walter B. Smith  
 Tract \_\_\_\_\_ Acres 15 Lease No. \_\_\_\_\_  
 Well (Farm) No. M-3 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1050.92' MANNINGTON 15'  
 Quadrangle Glover Gap, W.Va. (7.5')  
 County Wetzel District Grant  
 Surveyor C. D. Locke  
 Surveyor's Registration No. 6981 O. & G.E.  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date June 28, 1977 Scale 1" = 400'

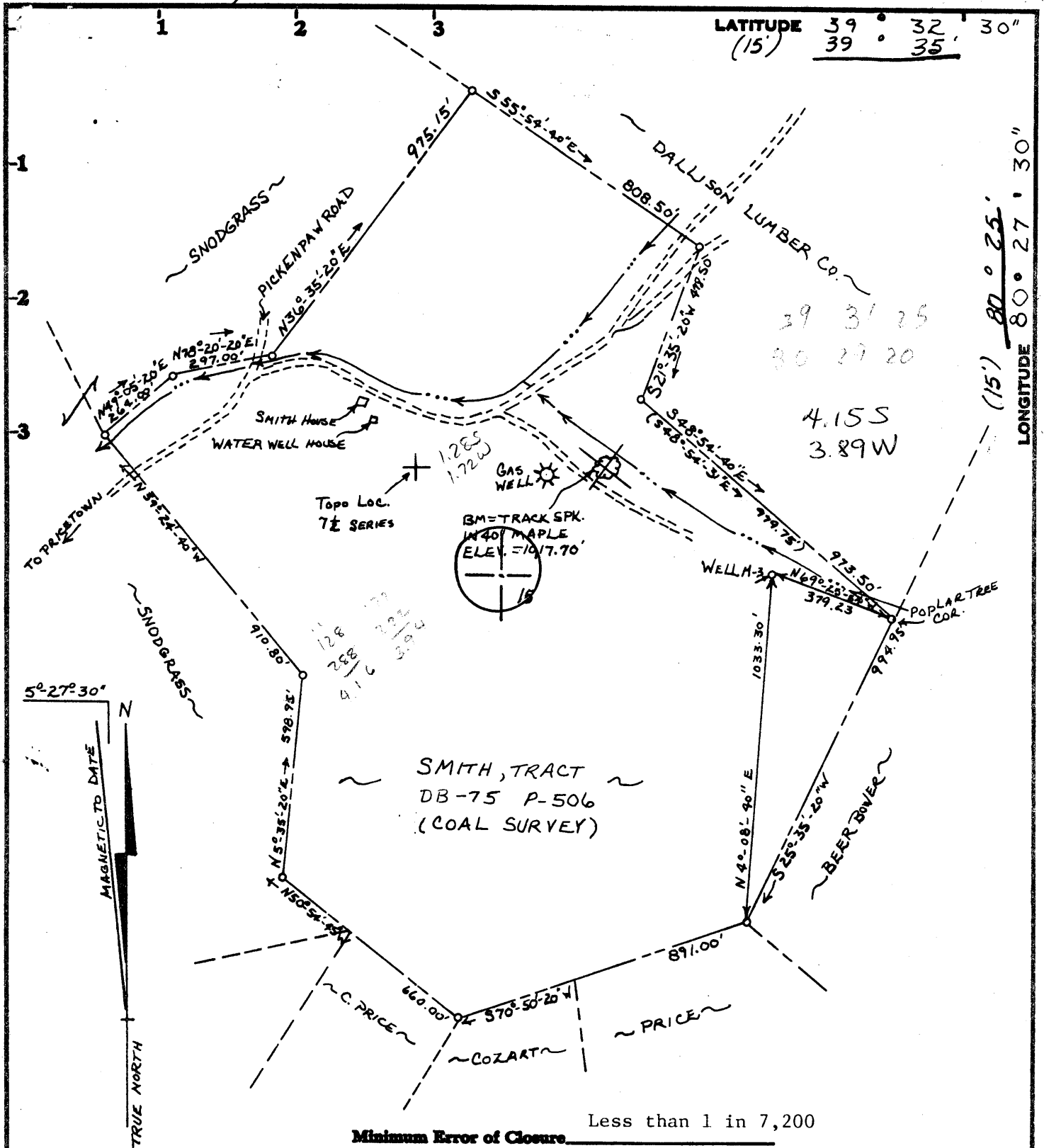
**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

**WELL LOCATION MAP**  
 FILE NO. WET-636-P

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.  
 - Denotes one inch spaces on border line of original tracing.

**47-103**

*AUG 23 1982*



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 Tract \_\_\_\_\_ Acres 15 Lease No. \_\_\_\_\_  
 Well (Farm) No. M-3 Serial No. SW  
 Elevation (Spirit Level) 1050.92' MANNINGTON 15'  
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 County Wetzel District Grant  
 Surveyor C. D. Locke  
 Surveyor's Registration No. 6981 O. & G.E.  
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STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

WELL LOCATION MAP

FILE NO. WET-636

+ Denotes location of well on United States Topographic Maps, scale 1 to <sup>62,500</sup>/<sub>24,000</sub>, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-103



RECEIVED

1978

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

OIL & GAS DIVISION  
DEPT. OF MINES  
Rotary   
Spudder   
Cable Tools   
Storage

Quadrangle GLOVER GAP (7.5')

Permit No. WET - 636

WELL RECORD 10

Oil or Gas Well RESEARCH  
(KIND)

Company U.S. D.O.E./Morgantown Energy Tech. Cntr.  
Address P.O. Box 880, Morgantown, WV 26505  
Farm Walter B. Smith Acres 15  
Location (waters) Pickenpaw Run  
Well No. Smith-ERDA-M3 Elev. 1050.92'  
District Grant County Wetzel  
The surface of tract is owned in fee by Walter B. Smith  
Address Smithfield, WV 26437  
Mineral rights are owned by Mr. & Mrs. Rex Smith  
Address Smithfield, WV 26437  
Drilling commenced Rotary Oct. 24-28, 1977  
Drilling completed Cable Tools Aug. 8, 1978  
Date Shot. From To  
With  
Open Flow /10ths Water in. Inch  
/10ths Merc. in. Inch  
Volume Cu. Ft.  
Rock Pressure lbs. hrs.  
Oil bbls., 1st 24 hrs.

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			Size of
10			Depth set
<del>8</del> 8-5/8"	201.5'	201.5'	Perf. top
6 3/4"			Perf. bottom
<del>5</del> 5-1/2"	893'	893'	Perf. top
4 1/2"			Perf. bottom
3			
2			
Liners Used			
Attach copy of cementing record. 8-5/8"-201.5' 10-25-77			
CASING CEMENTED 5-1/2"-893' 10-28-77			
Amount of cement used (bags) 8-5/8" - 120 sacks			
Name of Service Co. <u>Halliburton</u>			
COAL WAS ENCOUNTERED AT 394 FEET			
473 FEET INCHES 529 FEET INCHES			
794 FEET INCHES 900 FEET INCHES			

WELL ACIDIZED (DETAILS)  
WELL FRACTURED (DETAILS)

RESULT AFTER TREATMENT (Initial open Flow or bbls.)  
ROCK PRESSURE AFTER TREATMENT HOURS  
Fresh Water Feet Salt Water Feet  
Producing Sand Pittsburgh Coal Seam Depth 900-908

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
UNCONSOLIDATED SEDIMENTS			0	10			
SILTSTONES AND SHALES			10	65			
SANDSTONE			65	71			
SILTSTONE			71	135			
SANDSTONE			135	140			
SHALE			140	145			
SANDSTONE			145	151			
SHALE			151	190			
SANDSTONE			190	200			
SILTSTONE			200	206			
SANDSTONE			206	214			
SHALES AND SILTSTONE			214	354			
SANDSTONE			354	369			
SHALE			369	394			
WASHINGTON COAL			394	398			
SHALE AND LIMESTONE			398	471			
WAYNESBURG "A" COAL			471	473			
SHALE AND LIMESTONE			473	515			
WAYNESBURG SANDSTONE			515	526			
SHALE			526	529			
WAYNESBURG COAL			529	532			
SILTSTONE AND SHALE			532	604			
SANDSTONE			604	610			
SHALE AND LIMESTONE			610	794			

Formation	Color	Hard or Soft	Top Feet <i>10</i>	Bottom Feet	Oil, Gas or Water	* Remarks
SEWICKLEY COAL			794	797		
SHALE			797	802		
SILTSTONE			802	825		
SHALE			825	836		
LIMESTONE AND SHALE			836	900		
PITTSBURGH COAL			900	908		
SHALE			908	924		

Date AUGUST 30, 1978

APPROVED U.S. D.O.E. (Morgantown Energy, Owner  
Technology Center)

By *G. E. Rennick*  
(Title)

G. E. RENNICK, PETROLEUM ENGINEER



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

OCT - 4 1977

OIL & GAS DIVISION  
DEPT. OF MINES  
Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

Surface Owner	<u>Mr. Walter B. Smith</u>	DATE	<u>September 29, 1977</u>
Address	<u>Smithfield, WV 26437</u>	Company	<u>U.S. Energy Research and Development Administration</u>
Mineral Owner	<u>Mr. &amp; Mrs. Rex Smith</u>	Address	<u>P.O. Box 880, Morgantown, WV 26505</u>
Address	<u>Smithfield, WV 26437</u>	Farm	<u>Walter B. Smith</u> Acres <u>15</u>
Coal Owner	<u>Consolidation Coal Company</u>	Location (waters)	<u>Pickenpaw Run</u>
Address	<u>P.O. Box 1632, Fairmont, WV 26554</u>	Well No.	<u>Smith-ERDA-M-3</u> Elevation <u>1050.92'</u>
Coal Operator	_____	District	<u>Grant</u> County <u>Wetzel</u>
Address	_____	Quadrangle	<u>Glover Gap (7.5')</u>

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 2-4-78.

Robert J. [Signature]  
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Phillip Tracy  
PH: 758-4573 ADDRESS Middlebourn, W. Va.

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for ~~XXXXXX~~ research purposes having fee title thereto, (or as the case may be) under ~~XXXXXX~~ cooperative agreement dated 14 June 19 74 by Consolidation Co. Continental Oil Co. made to The U.S. of America and recorded on the Fourth day of March 19 77, in Wetzel County, Book #45 Page 173

XXX NEW WELL \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  
\_\_\_\_\_ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. \*

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address \_\_\_\_\_ day \_\_\_\_\_ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey  
P. O. Box 879  
Morgantown, W. Va. 26505

Very truly yours,  
(Sign Name) L. D. Strickland  
Well Operator L. D. Strickland  
Morgantown Energy Research Center  
Street  
P.O. Box 880  
Morgantown,  
City or Town  
West Virginia 26505  
State

\*SECTION 3 . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

Wet-636 PERMIT NUMBER  
47-103

THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO XXX DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_

DRILLING CONTRACTOR: (If Known)

RESPONSIBLE AGENT:

NAME Paramount Exploration, Inc.

NAME L. D. Strickland

ADDRESS P.O. Box 551  
Waynesburg, PA 15370

ADDRESS P. O. Box 880  
Morgantown, WV 26505

TELEPHONE 412/627-6144

TELEPHONE 599-7494

ESTIMATED DEPTH OF COMPLETED WELL: 915 ft.

ROTARY X CABLE TOOLS \_\_\_\_\_

PROPOSED GEOLOGICAL FORMATION: Pittsburgh coal

TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \*

TENTATIVE CASING PROGRAM:

\*Underground Coal Gasification Research

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
<u>8 - 5/8</u>	200 ft.	200 ft.	Surface to 200 ft.
7			
<u>5 1/2</u>	897 ft.	897 ft.	Surface to 897 ft.
4 1/2			
3	Well (M-3) will be an instrumentation well.		Perf. Top
2	Drilling will commence soon; however, it will be 10-12 months before completion.		Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 40 FEET SALT WATER \_\_\_\_\_ FEET

APPROXIMATE COAL DEPTHS 900 ft.

IS COAL BEING MINED IN THE AREA? No BY WHOM? \_\_\_\_\_

**TO DRILL:**

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

**TO DRILL DEEPER OR REDRILL:**

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

**TO FRACTURE - STIMULATE:**

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for Consolidation Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the Consolidation Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

Ray M Henderson  
For Coal Company  
Regional Manager of Engineering  
Official Title

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

RECEIVED

OCT 25 1982

AFFIDAVIT OF PLUGGING AND FILLING WELL

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

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.

Consolidation Coal Company  
COAL OPERATOR OR OWNER  
Northern West Virginia Region  
P.O. Box 1314, Morgantown, WV 26505  
ADDRESS

---

COAL OPERATOR OR OWNER

---

ADDRESS  
Mr. Walter B. Smith

---

LEASE OR PROPERTY OWNER  
Smithfield, WV 26437  
ADDRESS

U.S. Department of Energy  
NAME OF WELL OPERATOR  
P.O. Box 880, Morgantown, WV 26505  
COMPLETE ADDRESS

---

September 29 19 82  
WELL AND LOCATION

---

Grant District  
Wetzel County

---

Well No. Smith-ERDA-M-3

---

Walter B. Smith Farm

STATE INSPECTOR SUPERVISING PLUGGING Robert A. Lowther

AFFIDAVIT

STATE OF WEST VIRGINIA, }  
County of Wetzel } SS:

Chisler Brothers 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 U.S. Department of Energy, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 22 day of September, 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	CASING	
			SSS PULLED	SSS LEFT IN
	This monitor well is filled from the Pittsburgh Coal (900') to the surface with cement containing monitor wires and 1/4-inch s.s. tubing.			
	Plugging entailed welding a steel plate on top of the casing and erecting a common monument showing location of the cut off wells.			
	Walter B. Smith Farm			
	Well No. M-3 WV Permit 47-103-636-P			
To-Well	Permit No.	Bearing	Distance	
PI-1	47-103-625-P	N87°-30'W	46.49'	
PI-2	47-103-626-P	S33°-47'E	19.46'	
M-1	47-103-634-P	S89°-25'W	31.43'	
M-2	47-103-635-P	S35°-06'W	15.91'	
M-4	47-103-637-P	S52°-15'E	42.71'	
H-1	47-103-640-P	S01°-06'E	48.54'	
COAL SEAMS HQ-1	47-103-642-P	S04°-09'W	67.83'	DESCRIPTION OF MONUMENT
(NAME) C-1	47-103-1203-P	S89°-08'W	35.87'	
(NAME) C-3	47-103-1205-P	S34°-11'W	11.02'	
(NAME) C-4	47-103-1206-P	S32°-18'E	14.58'	
(NAME) C-5	47-103-1207-P	N89°-10'W	58.47'	

and that the work of plugging and filling said well was completed on the 22 day of September, 19 82.

And further deponents saith not.

Sworn to and subscribed before me this 6th day of October, 19 82

My commission expires:  
3-4-87

Robert P. Chisler  
Charles J. Waller  
Don [Signature]  
Notary Public.

Permit No. 103-0636-P

WET-636 P