



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION High Point 1152'

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) William R. Phares
 R.P.E. _____ L.L.S. Bill

PLACE SEAL HERE

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



DATE 27 May, 1981
 OPERATOR'S WELL NO. Thomas 1A
 API WELL NO. 47 095
 STATE COUNTY PERMIT 0916

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 1022' WATER SHED Stewart Run
 DISTRICT Union COUNTY Tyler
 QUADRANGLE Middlebourne, W. Va. 7 1/2' Quad. West Union N-W
 SURFACE OWNER T. Thomas ACREAGE 39.875
 OIL & GAS ROYALTY OWNER I. Thomas LEASE ACREAGE 90.875
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUS OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Shale ESTIMATED DEPTH 4500'
 WELL OPERATOR Lauderman O+G DESIGNATED AGENT Phillip Morgan
 ADDRESS Box 266 ADDRESS Box 266
Paden City, W. Va. 26159 Paden City, W. Va. 26159



WR-35

Date April 19, 1989
Operator's Well No. #1 Thomas
Farm Thurman Thomas
API No. 47 - 095 - 0916

State of West Virginia
DEPARTMENT OF ENERGY
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 / Shallow x /)

LOCATION: Elevation: 1022 Watershed Stewart Run
District: Union County Tyler Quadrangle Middlebourne

COMPANY Sancho Oil and Gas Corp

ADDRESS 210 Second Street Sr. Marys, W.Va.

DESIGNATED AGENT Loren E. Bagley

ADDRESS Rt 1 Middlebourne, W.Va.

SURFACE OWNER Thurman Thomas

ADDRESS Rt 1 Middlebourne, W.Va. 26149

MINERAL RIGHTS OWNER Thurman Thomas

ADDRESS Rt 1 Middlebourne, W.Va. 26149

OIL AND GAS INSPECTOR FOR THIS WORK

Glen Robinson ADDRESS Mineral Wells, W.Va.

PERMIT ISSUED 6/10/81

DRILLING COMMENCED 11/12/81

DRILLING COMPLETED 11/17/81

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 Cond., 13-10", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Chemung Group of Ohio Shale Depth 4330 feet

Depth of completed well 4757 feet Rotary xx / Cable Tools

Water strata depth: Fresh 95 feet; Salt 1500 feet

Coal seam depths: none Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Chemung Shale Pay zone depth 4330 feet

Gas: Initial open flow 250 Mcf/d Oil: Initial open flow none Bbl/d

Final open flow 15 Mcf/d Final open flow none Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 1600 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

Second producing formation none 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

JUL 7 1989
(Continue on reverse side)

JUL 7 1989

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

34 shots between 4320 and 4330 feet

Foam frac'd with:
 250 gallon 15% HCl acid
 1 MMcf nitrogen
 200 BBL water
 750 sacks of 20/40 mesh sand

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Clay & unconsolidated gravel			0	35	
Shale			35	95	
Sandstone			95	115	fresh water
Shale	grey		115	295	
Limestone			295	460	
Shale	black		460	480	odor of oil
Shale	red		480	605	
Sandstone & Shale			605	795	
Shale	red		795	880	
Shale	grey		880	940	
Salt Sand			940	1100	
Shale	grey		1100	1585	
Greenbrier Limestone		brown	1585	1640	
Big Injun Sandstone			1640	1700	
Cuyahoga Shale			1700	2285	
Berea Sandstone			2410	2414	show of gas
Ohio Shale			2416		
Gordon Sandstone			2655	2700	
Shale			2700	2820	
Fifth Sand			3410	3455	show of gas
Shale			3455	4757	
total depth				4757	

434-2414
 813 3600

4757
 1700
~~3057~~ expl. ftg.
 All ftg
 exp!

(Attach separate sheets as necessary)

Sancho Oil And Gas Corp
 Well Operator
 By: Richard Brown, engineer
 Date: April 18, 1989

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."

JUL 7 1989

OIL AND GAS WELL PERMIT APPLICATION

Farm Name: T. Thomas #1-

API No. 47 - 095-091 State County

WELL TYPE: Oil XX / Gas XX / (If "Gas", Production / Underground storage / Deep / Shallow / LOCATION: Elevation: 1022' Watershed: Stewart Run District: Union County: Tyler Quadrangle: Middlebourne

WELL OPERATOR: Lauderman Oil & Gas Drilling Address: 311 S. 4th Avenue Paden City, W.Va. 26159 DESIGNATED AGENT: Phillip Morgan Address: P.O. Box 266 Paden City, W.Va. 26159

OIL & GAS ROYALTY OWNER: T. Thomas Address: Rt. 1 Middlebourne, W.Va. 26146 COAL OPERATOR: N/A Address:

ACREAGE: 90.875 SURFACE OWNER: Same Address: Same Acreage: 39.875 COAL OWNER(S) WITH DECLARATION ON RECORD: Name: Address: RECEIVED JUN - 9 1981 OIL & GAS DIVISION DEPT. OF MINES

FIELD SALE (IF MADE) TO: Name: N/A Address: COAL LESSEE WITH DECLARATION ON RECORD: Name: N/A Address:

OIL AND GAS INSPECTOR TO BE NOTIFIED: Name: Phillip Tracy Rt. 23 Alma, W.Va.

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease X / other contract / dated Apr. 27, 1981, to the undersigned well operator from Thurman E. Thomas (If said deed, lease or other contract has been recorded:)

Recorded on Middlebourne, 1981, in the office of the Clerk of the County Commission of Tyler County, West Virginia, in Middlebourne Book 230, at page 486. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill Deeper / Redrill / Fracture or stimulate / Plug off old formation / Perforate new formation X / 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 the receipt of this Application by Department of Mines. 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 Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOLOGICAL LOGS DIRECTLY TO: OFFICE OF OIL AND GAS 615 Washington Street, East BLANKET BOND Well Operator

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Eastern Overthrust
Address Clarksburg, W.Va.

GEOLOGICAL TARGET FORMATION, Shale

Estimated depth of completed well, 4500' feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 90 feet; salt, 1700 feet.

Approximate coal seam depths: n/a Is coal being mined in the area? Yes / No XX /

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		
Conductor								Kinds
Fresh water	8 5/8		24	X		260' for Mud Rotary		
Coal						1100' for Air Rotary		Sizes
Intermediate								
Production	4 1/2		105	X		To T.D. & Cemented from Btm.		Depths set
Tubing						back to 1200 feet from surface		
Liners								Perforations:
								Top Bottom

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 12, or in lieu thereof the other security allowed by Code § 22-4-2, (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 § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a 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 2-10-89

[Signature]
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 regulations.

Date: , 19

By
Its