

FILE NO. 85-754

DRAWING NO. _____

SCALE 1" = 100'

MINIMUM DEGREE OF ACCURACY 1/200'

PROVEN SOURCE OF ELEVATION 95-0908 (627')

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) Chet Waterman

R.P.E. 3788 L.L.S. _____



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE 11/15, 19 85

OPERATOR'S WELL NO. 1

API WELL NO. 47-095-1129

STATE 47 COUNTY 095 PERMIT 1129

WELL TYPE: OIL GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____

LOCATION: ELEVATION 613 WATERSHED OHIO RIVER

DISTRICT LINCOLN 3 COUNTY TYLER

QUADRANGLE NEW MATAMORAS 7.5 510 092 SE9

SURFACE OWNER CITY OF SISTERSVILLE ACREAGE 2.31

OIL & GAS ROYALTY OWNER STATE OF W. VA. LEASE ACREAGE 1311.83

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 BIG INJUN 120 ESTIMATED DEPTH 1500'

WELL OPERATOR SOHIO SHALE OIL CO. DESIGNATED AGENT CHET WATERMAN

ADDRESS 60 S. MAIN ST., SUITE 930 ADDRESS 1704-18TH ST.

SALT LAKE CITY, UTAH 84144 PARKERSBURG, WV 26102

FORM IV-6 (8-78) DRAFT CO., INC. 88433

6- Sistersville (28)

RECEIVED
OCT 24 1986



DIVISION OF OIL & GAS **State of West Virginia**
DEPARTMENT OF ENERGY **Department of Mines**
Oil and Gas Division

Date 8/31/86
Operator's Well No. 1
Farm City of Sistersville
API No. 47 - 095 - 1129

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 /)

LOCATION: Elevation: 613' Watershed Ohio River
District: Lincoln County Tyler Quadrangle New Matamoras 7.5'

COMPANY Standard Oil Research & Development

ADDRESS Cleveland, Ohio

DESIGNATED AGENT Chet Waterman

ADDRESS Parkersburg, WV

SURFACE OWNER City of Sistersville

ADDRESS Same

MINERAL RIGHTS OWNER State of West Virginia

ADDRESS Charleston, WV

OIL AND GAS INSPECTOR FOR THIS WORK

R. Lowther ADDRESS Middlebourne, WV

PERMIT ISSUED 2/14/86

DRILLING COMMENCED 8/5/86

DRILLING COMPLETED 8/15/86

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 <u>20-16</u> Cond.	60'	60'	
<u>13-10"</u>	224'	224'	Circulated
9 5/8			
8 5/8			
7	1465'	1465'	Circulated
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth 1480 feet
Depth of completed well 1625 feet Rotary X / Cable Tools
Water strata depth: Fresh feet; Salt feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Big Injun Pay zone depth 1480 feet
Gas: Initial open flow 100 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 150 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 10 psig (surface measurement) after 24 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)

NOV 03 1986

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

?

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Dirt			0	20	
Shale			20	50	
Sand			50	60	Water
Shale			60	510	
Sand			510	535	
Shale			535	775	
Sand			775	820	
Shale			820	1140	
Sand			1140	1160	
Shale			1160	1207	
Sand			1207	1277	
Shale			1277	1340	
Limestone			1340	1399	
Sandy Lime			1399	1470	
Shale			1470	1500	
Big Injun			1500	1610	✓ Show: Gas & Oil
Shale			1610	1625	
Total Depth				<u>1625</u>	

(Attach separate sheets as necessary)

Well Operator
 By: *Cher...*
 Date: 10/21/86

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 coal, encountered in the drilling of a well."



1) Date: November 15, 1985
 2) Operator's Well No. 1
 3) API Well No. 47 095-1129
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY, 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: 605' Watershed: Ohio River
 District: Lincoln 730 County: Tyler Quadrangle: New Matamoras 7.5'
- 6) WELL OPERATOR Sohio Shale Oil Co. CODE: 46280 7) DESIGNATED AGENT Chet Waterman
 Address 50 South Main St., Suite 930 Address 1704-18th Street
Salt Lake City, Utah 84144 Parkersburg, WV 26102
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Mr. Lowther
 Address Middlebourne
West Virginia
- 9) DRILLING CONTRACTOR: Name To be named later
 Address _____
- 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 Injun 3
- 12) Estimated depth of completed well, 1500 feet
 13) Approximate strata depths: Fresh, NONE feet; salt, _____ feet.
 14) Approximate coal seam depths: NONE Is coal being mined in the area? Yes _____ / No

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		
Conductor	16"				X		60'	Kinds
Fresh water	10-3/4"			X			200'	_____ <u>RULE 15.05</u>
Coal								Sizes
Intermediate								
Production	7"		17'	X			1500'	Circulated
Tubing								Depths set <u>350 sx</u>
Lin...								<u>OR AS REQUIRED</u>
								Perforations: <u>BY RULE</u>
								Top Bottom <u>15.01</u>

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-095-1129 Date February 14 1986

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 February 14, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <u>YD</u>	Plat: <u>MS</u>	Casing: <u>SS</u>	Fee: <u>485.00</u>	WPCP: <u>SS</u>	S&E: <u>SS</u>	Other:
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NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]
 Director, Division of Oil and Gas File

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, one copy mailed to the Division, 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.

<u>NONE</u> Coal Operator or Owner	<u>BP AMERICA / STANDARD OIL</u> Name of Well Operator
<u>NONE</u> Address	<u>200 PUBLIC SQUARE 36-5406-A</u> CLEVELAND, OHIO 44114 Complete Address
<u>NONE</u> Coal Operator or Owner	<u>SISTERSVILLE #1 6/1/88</u> WELL AND LOCATION
<u>CITY OF SISTERSVILLE</u> Lease or Property Owner	<u>LINCOLN</u> District
<u>SISTERSVILLE, W.V.</u> Address	<u>TYLER</u> County
	WELL NO. <u>1</u>
	<u>SISTERSVILLE</u> Farm

STATE INSPECTOR SUPERVISING PLUGGING ROBERT LOWTHAR

AFFIDAVIT

STATE OF WEST VIRGINIA,

County of WOOD ss:

Bick Collins, DOUGLAS SCHUMBERG and William O. Burtch CARPER WELL SEC 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 BP AMERICA / STANDARD OIL, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 1 day of JUNE, 19 88, and that the well was plugged and filled in the following manner:

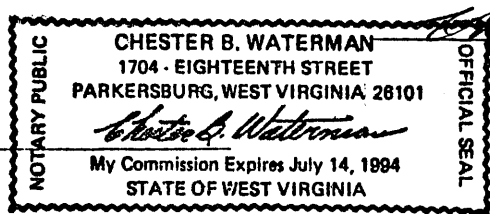
Sand or Zone Record Formation	Filling Material	Plugs Used Size & Kind	Casing	
			CSG PULLED	CSG LEFT IN
100' CEMENT PLUG BIG INJUN	CEMENT CEMENT 1465'-1365'	100'		7" 1465'
—	GELL	TO WITHIN 50' OF TOP		
—	CEMENT 50' - Surface	TO TOP		
<div style="border: 2px solid black; padding: 5px; display: inline-block;"> <p style="font-size: 2em; margin: 0;">RECEIVED</p> <p style="margin: 0;">JUN 03 1988</p> </div>				
Coal Seams	DIVISION OF OIL & GAS DEPARTMENT OF ENERGY		Description of Monument 36" x 7" CASING - WITH PERMIT # 95-1129	
(Name)				
(Name)				
(Name)				
(Name)				

and that the work of plugging and filling said well was completed on the 1 day of JUNE, 19 88.

And further deponents saith not.

Sworn to and subscribed before me this 1 day of JUNE, 19 88.

My commission expires:



Chester B. Waterman
Notary Public

Permit No. 095-1129P
JUN 10 1988