

District I - (505) 393-6161  
P. O. Box 1980  
Hobbs, NM 88241-1980  
District II - (505) 748-1283  
811 S. First  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Road  
Aztec, NM 87410  
District IV

New Mexico  
Energy Minerals and Natural Resources Department  
Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

Form C-140  
Originated 11/1/95

Submit Original  
Plus 2 Copies  
to appropriate  
District Office

APPLICATION FOR  
QUALIFICATION OF WELL WORKOVER PROJECT  
AND CERTIFICATION OF APPROVAL

THREE COPIES OF THIS APPLICATION AND ALL ATTACHMENTS MUST BE FILED WITH THE APPROPRIATE DISTRICT OFFICE OF THE OIL CONSERVATION DIVISION.

- I. Operator: THOMPSON ENGR. & PROD. CORP. OGRID #: 037581  
Address: 7415 E. Main Farmington, N.M. 87402  
Contact Party: Paul C. Thompson Phone: 505 327-4892
- II. Name of Well: State #1 API #: 30-045-22575  
Location of Well: Unit Letter A, 790 Feet from the North line and 790 feet from the East line,  
Section 2, Township 26N, Range 13W, NMPM, San Juan County
- III. Date Workover Procedures Commenced: 9/4/96  
Date Workover Procedures were Completed: 9/20/96
- IV. Attach a description of the Workover Procedures undertaken to increase the projection from the Well.
- V. Attach an estimate of the production rate of the Well (a production decline curve or other acceptable method, and table showing monthly oil and/or gas Project Production) based on at least twelve (12) months of established production which shows the future rate of production based on well performance prior to performing Workover.
- VI. Pool(s) on which Production Projection is based:  
WAW Fruitland Sand - Pictured Cliffs
- VII. AFFIDAVIT:  
State of New Mexico )  
County of San Juan ) ss. **OIL CON. DIV.**  
**DIST. 3**

Paul C. Thompson, being first duly sworn, upon oath states:

1. I am the Operator or authorized representative of the Operator of the above referenced Well.
2. I have made, or caused to be made, a diligent search of the production records which are reasonably available and contain information relevant to the production history of this Well.
3. To the best of my knowledge, the data used to prepare the Production Projection for this Well is complete and accurate and this projection was prepared using sound petroleum engineering principles.

Paul C. Thompson  
(Name) Paul C. Thompson

President  
(Title)

SUBSCRIBED AND SWORN TO before me this 10 day of February, 1997

Bruce E. Bagge  
Notary Public

My Commission expires: July 31, 1997

FOR OIL CONSERVATION DIVISION USE ONLY:

VIII. CERTIFICATION OF APPROVAL:

This Application for Qualification of Well Workover Project is hereby approved and the above referenced Well is designated as a Well Workover Project pursuant to the "Natural Gas and Crude Oil Production Incentive Act" (Laws 1995, Chapter 15, Sections 1 through 8). The Oil Conservation Division hereby verifies the Production Projection for the Well Workover Project attached to this application. By copy of this Application and Certification of Approval, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval and certifies that this Well Workover Project has been completed as of 9/20, 1996

FSJ  
District Supervisor, District 3  
Oil Conservation Division

Date: 8/8/97

IX. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT.

DATE: \_\_\_\_\_

# **Application for Well Workover Project**

## **Thompson Engineering and Production State #1**

<b>Year</b>	<b>Month</b>	<b>Projected Rate Without WO MCF/Mo.</b>	<b>Year</b>	<b>Month</b>	<b>Projected Rate Without WO MCF/Mo.</b>	<b>Year</b>	<b>Month</b>	<b>Projected Rate Without WO MCF/Mo.</b>
1996	September	238.0	2000	January	200.2	2004	January	162.7
	October	237.0		February	199.3		February	162.0
	November	236.0		March	198.5		March	161.3
	December	234.9		April	197.6		April	160.6
1997	January	233.9	2001	May	196.8	2005	May	159.9
	February	232.9		June	195.9		June	159.2
	March	231.9		July	195.1		July	158.5
	April	230.9		August	194.2		August	157.8
	May	229.9		September	193.4		September	157.1
	June	228.9		October	192.5		October	156.5
	July	227.9		November	191.7		November	155.8
	August	226.9		December	190.9		December	155.1
	September	226.0		January	190.1		January	154.4
	October	225.0		February	189.2		February	153.8
	November	224.0		March	188.4		March	153.1
	December	223.0		April	187.6		April	152.4
1998	January	222.1	2002	May	186.8	2006	May	151.8
	February	221.1		June	186.0		June	151.1
	March	220.2		July	185.2		July	150.5
	April	219.2		August	184.4		August	149.8
	May	218.3		September	183.6		September	149.2
	June	217.3		October	182.8		October	148.5
	July	216.4		November	182.0		November	147.9
	August	215.5		December	181.2		December	147.3
	September	214.5		January	180.5		January	146.6
	October	213.6		February	179.7		February	146.0
	November	212.7		March	178.9		March	145.4
	December	211.8		April	178.1		April	144.7
1999	January	210.9	2003	May	177.4		May	144.1
	February	209.9		June	176.6		June	143.5
	March	209.0		July	175.8		July	142.9
	April	208.1		August	175.1		August	142.3
	May	207.2		September	174.3			
	June	206.3		October	173.6			
	July	205.5		November	172.8			
	August	204.6		December	172.1			
	September	203.7		January	171.3			
	October	202.8		February	170.6			
	November	201.9		March	169.9			
	December	201.1		April	169.1			
				May	168.4			
				June	167.7			
				July	166.9			
				August	166.2			
				September	165.5			
				October	164.8			
				November	164.1			
				December	163.4			

#### IV. Workover Operations:

Well is a 2 7/8" slimhole completion that was never fractured. The well also did not have any tubing.

A casing leak was discovered in the 2 7/8" casing at 322-328'. The holes were squeezed with 152 sx of C1 "B" cement with 2% CaCl<sub>2</sub> and 1/4 cello-flake/sk. After drilling cement, the holes were pressure tested to 1700#.

Covered the lower set (1226 - 1231') of existing perfs with sand. Reperforated the upper set (1212 - 1218') of perfs at 2 SPF. Fraced the Pictured Cliffs with 45,000# of 20/40 sand in a 70% nitrogen foam.

After clean out, 1 1/2" I J tubing was run. A 1 1/2" tubing pump was run on 5/8" rods and the well was returned to production.

DWIGHTS ENERGYDATA, INC.  
GAS WELL HISTORY  
NEW MEXICO GAS NORTHWEST

File: STATE1.DMP

RUN DATE: 11/24/96

DATA CURRENT THRU: 06/96  
(#251,045,26N13W02A00FP )

OPERATOR (#182142)	WELL NAME	WELL #
THOMPSON ENGR & PROD CO	STATE	1

LOCATION	STATE	DIST	COUNTY (#045)	LEASE #
2A 26N 13W	NM	004	SAN JUAN	83630

API #	FIELD (#8080636)	RESERVOIR
30-045-2257500	WAW (FRUITLAND PICTURED CLIFFS) FP	FRUITLAND PICTURED C

TOTAL DEPTH	UPPER PERF	LOWER PERF	GAS GATH	LIQ GATH	GAS GRAV	LIQ GRAV	TEMP GRAD	N-FACTOR
			ELNAT				1.380	

COMP DATE	1ST PROD DATE	LAST PROD DATE	STATUS DATE	STATUS
	7803	9606		ACT

CUM THRU LPD GAS/MCF	GAS CUM SINCE DATE
210908	FPDAT

DWIGHTS ENERGYDATA, INC.  
THOMPSON ENGR & PROD CO  
STATE

File: STATE1.DMP

RUN DATE: 11/24/96

DATA CURRENT THRU: 06/96  
(#251,045,26N13W02A00FP )

\*\*\* GAS TEST INFORMATION \*\*\*

TEST DATE	CUM TO TEST	WHSIP	BHP	BHP/Z	T	POTENTIAL	WH FLOW	BBLS/DAY WATER	BBLS/DAY COND
780414	8085	235			2	262	99		
791122	103970	164			2	60	51		
810505	137003	133			2	74	41		
830706	159750	114			2	25	54		

DWIGHTS ENERGYDATA, INC.  
THOMPSON ENGR & PROD CO  
STATE

File: STATE1.DMP

RUN DATE: 11/24/96  
DATA CURRENT THRU: 06/96  
(#251,045,26N13W02A00FP )

\*\*\* ANNUAL PRODUCTION HISTORY \*\*\*

YEAR	GAS/MCF	COND/BBLs	WATER/BBLs
1978	49238	0	0
1979	58197	0	0
1980	23122	0	0
1981	16175	0	0
1982	10062	0	0
1983	5110	0	0
1984	6551	0	0
1985	6411	0	0
1986	2733	0	0
1987	1895	0	0
1988	3537	0	0
1989	4496	0	0
1990	3476	0	0
1991	3304	0	0
1992	3842	0	0
1993	4014	0	0
1994	3951	0	0
1995	3368	0	0
1996	1426	0	0

DWIGHTS ENERGYDATA, INC.  
THOMPSON ENGR & PROD CO  
STATE

File: STATE1.DMP

RUN DATE: 11/24/96  
DATA CURRENT THRU: 06/96  
(#251,045,26N13W02A00FP )

\*\*\* MONTHLY PRODUCTION HISTORY \*\*\*

MONTH	GAS MCF	CUM GAS MCF	COND BBLs	CUM COND BBLs	WATER BBLs	DAYS ON
JAN	319	198468	0	0	0	31
FEB	309	198777	0	0	0	28
MAR	335	199112	0	0	0	31
APR	323	199435	0	0	0	30
MAY	339	199774	0	0	0	31
JUN	338	200112	0	0	0	30
JUL	367	200479	0	0	0	31
AUG	322	200801	0	0	0	30
SEP	300	201101	0	0	0	30
OCT	328	201429	0	0	0	31
NOV	345	201774	0	0	0	30
DEC	389	202163	0	0	0	31
1993	4014	202163	0	0	0	
JAN	411	202574	0	0	0	31
FEB	316	202890	0	0	0	28
MAR	322	203212	0	0	0	31
APR	291	203503	0	0	0	30
MAY	313	203816	0	0	0	31
JUN	323	204139	0	0	0	30
JUL	335	204474	0	0	0	31
AUG	319	204793	0	0	0	31
SEP	296	205089	0	0	0	30
OCT	367	205456	0	0	0	31
NOV	343	205799	0	0	0	30
DEC	315	206114	0	0	0	31
1994	3951	206114	0	0	0	
JAN	367	206481	0	0	0	31
FEB	299	206780	0	0	0	28
MAR	275	207055	0	0	0	31
APR	285	207340	0	0	0	29
MAY	285	207625	0	0	0	29
JUN	287	207912	0	0	0	30
JUL	285	208197	0	0	0	29
AUG	297	208494	0	0	0	28
SEP	243	208737	0	0	0	27
OCT	209	208946	0	0	0	21
NOV	261	209207	0	0	0	29
DEC	275	209482	0	0	0	31
1995	3368	209482	0	0	0	
JAN	265	209747	0	0	0	30
FEB	255	210002	0	0	0	26
MAR	260	210262	0	0	0	28
APR	205	210467	0	0	0	24
MAY	183	210650	0	0	0	21
JUN	258	210908	0	0	0	21
1996	1426	210908	0	0	0	



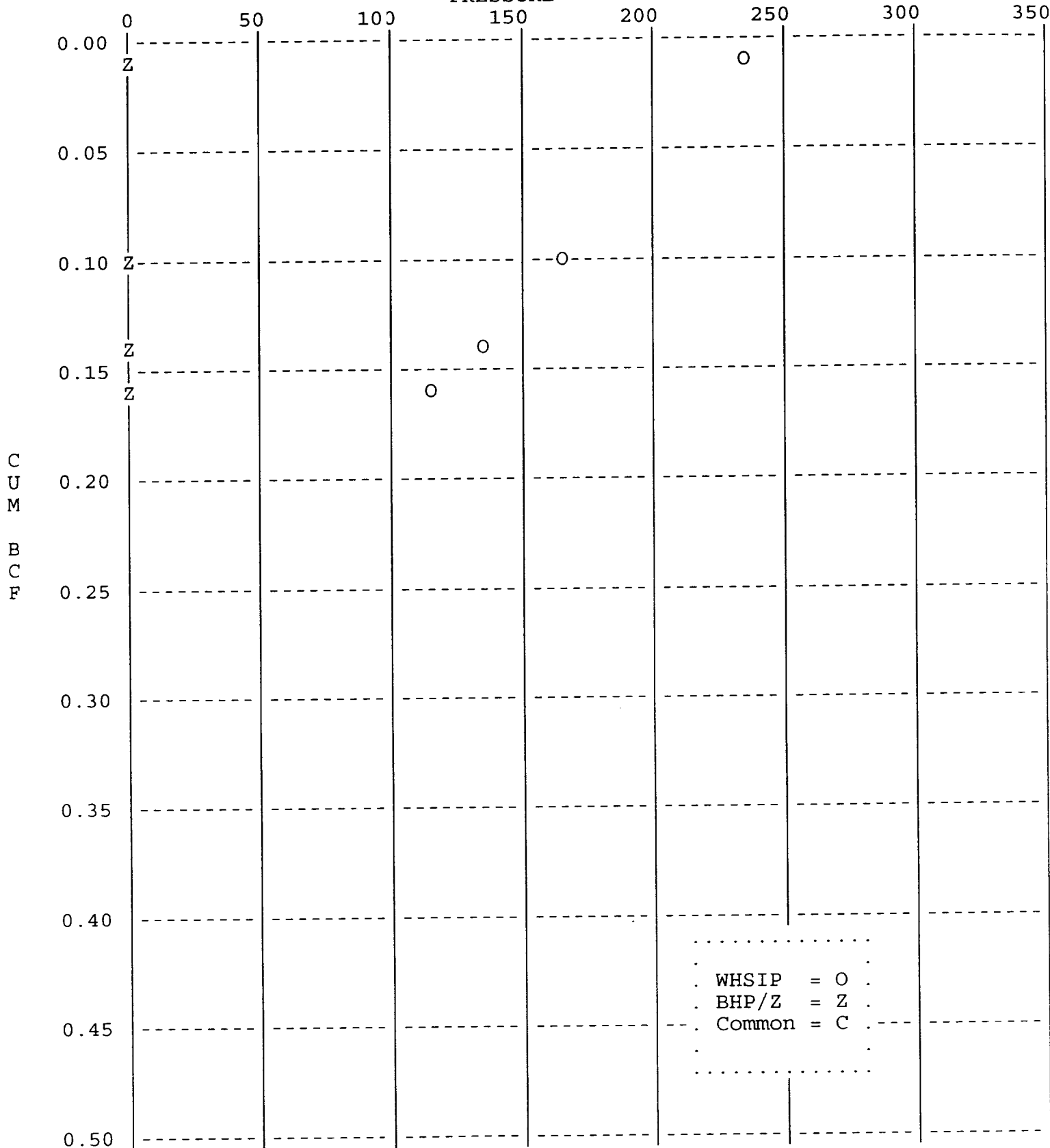
DWIGHTS ENERGYDATA, INC.  
File: STATE1.DMP

RUN DATE: 11/24/96  
DATA CURRENT THRU: 06/96  
(#251,045,26N13W02A00FP )

Lease: STATE  
Field: WAW (FRUITLAND PICTURED CLIFFS) FP  
Operator: THOMPSON ENGR & PROD CO

Well #: 1  
Reservoir: FRUITLAND PICTURED C  
Gas cum: 210908

PRESSURE

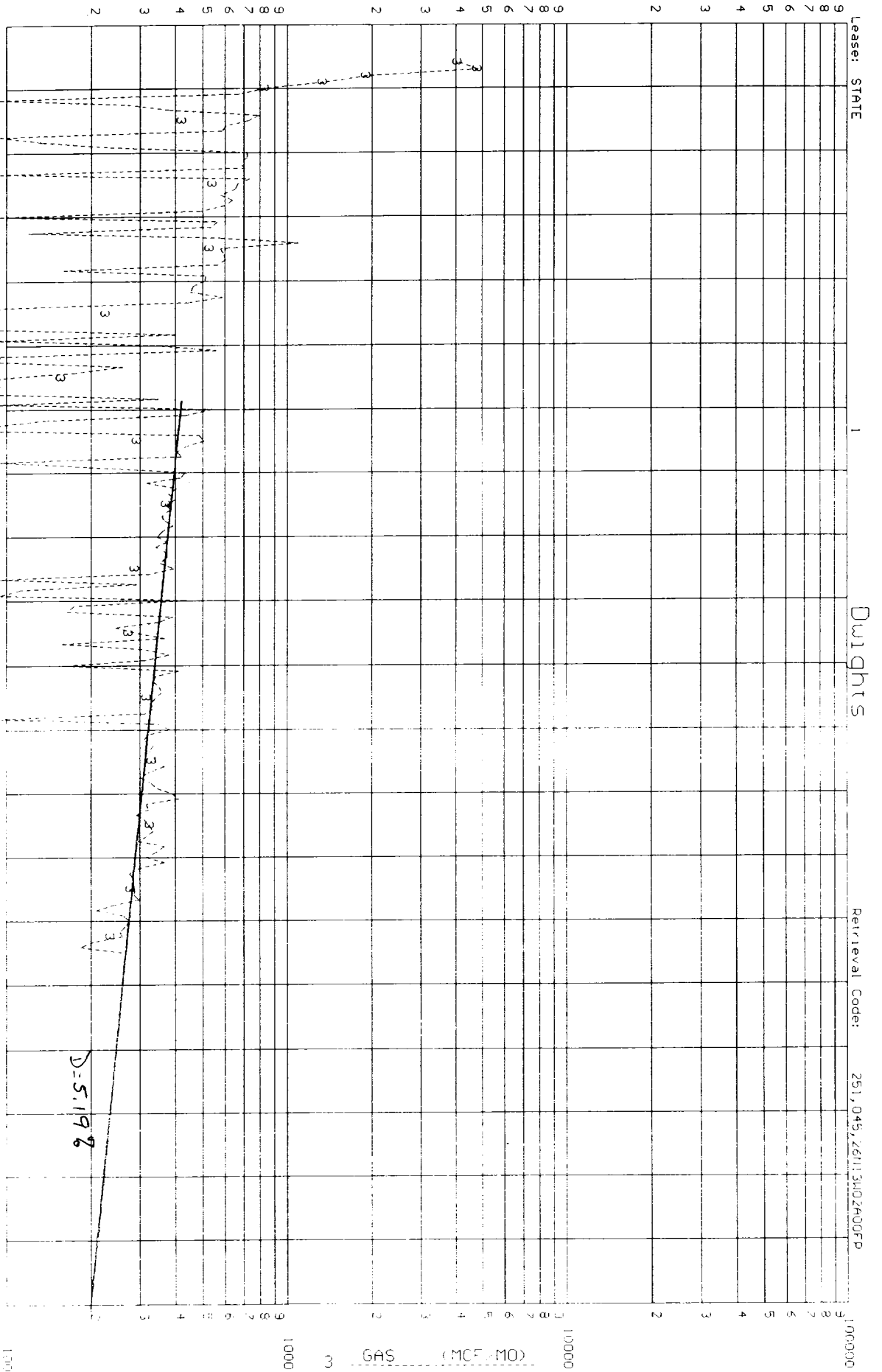


Annual  
Data

F.P. Date 03-78

County:	SAN JUAN
Field:	LAKE OF PUERTO RICO
Location:	LAKE OF PUERTO RICO
State:	PR
Latitude:	24 26N 13W

Date: 03-78



Well Name: State #1  
Field Name: WAW FT Sand PC  
25-Nov-96

-DECLINE-

Calculates Exponential Decline parameters

	INPUT	CALCULATED	
Qi (/mo)	400.00	400.00	13.16 /day
Qt (/mo)	200.00	200.00	6.58 /day
Loss Ratio	0.0000	.9481	5.19% decline
T (mo)	156.00	156.00	13.00 yrs
Volume	0	45,012	