

SHELL OIL COMPANY

PETROLEUM BUILDING
P.O. BOX 1509
MIDLAND, TEXAS 79702

April 27, 1978

APR - 2 1978
OIL CONSERVATION COM
S-100

Subject: Application to Downhole Commingle
for Shell Taylor-Glenn Well No. 1,
Unit Letter K, Located 3226' FNL
and 1980' FWL Section 3, T-21-S,
R-37-E, Lea County, New Mexico
Drinkard Field

DHC - 242
Duc - 5/22/78

State of New Mexico (3)
Energy and Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

Attention Mr. J. D. Ramey, Secretary-Director

Gentlemen:

Shell Oil Company requests administrative approval under the provisions of Rule 303-C to commingle within the wellbore production from the Blinebry and Drinkard pools in its Taylor-Glenn Well No. 1, located in Unit K of Section 3, T-21-S, R-37-E, Lea County, New Mexico.

The subject well has been flowing from the Drinkard zone at a rate of 12 BOPD + 1 BWPD + 355 MCFGPD with a GOR of 29,600 CF/B. The Blinebry zone was reclassified as an oil zone with a special C-116 submitted April 7, 1978 showing a test of 22 BOPD + 1 BWPD + 397 MCFGPD, GOR 18,000 CF/B.


Production from the Blinebry and Drinkard formations has been surface commingled at the Taylor-Glenn Battery for a number of years without any indication of fluid incompatibility. Since the crudes are commingled at the Battery before being sold, no difference in value will result by commingling within the wellbore of the subject well.

The static BHP for the Blinebry was 444 PSIG, and the Drinkard is 396 PSIG.

Bl@ 5649-5850 : 22 BOPD 53% 397 mcf 53%
Dr@ 6491-6715 : 12 BOPD 35% 355 mcf 47%
34 752

A copy of this application is being sent to all offset operators. Your further handling and approval of this application will be sincerely appreciated.

Yours very truly,


for W. T. Weller, Jr.
Operations Manager - Midland
Mid-Continent Division

JWH:JAH

Attachments

cc - Offset Operators

- State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88240

OFFSET OPERATORS

TAYLOR-GLENN NO. 1
LEA COUNTY, NEW MEXICO

CONTINENTAL OIL CO.
P. O. BOX 460
HOBBS, NM 88240

M. R. ANTWEIL
P. O. BOX 2010
HOBBS, NM 88240

EXXON COMPANY-U.S.A.
P. O. BOX 1600
MIDLAND, TX 79702

AZTEC OIL & GAS CO.
P. O. BOX 337
HOBBS, NM 88240

Reclassified from Gas to Oil.

C 116
Revised 1-1-63

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.


(Signature)

Supervisor-Oil Accounting

7742

4/4/78

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator Shell Oil Company Pool Drinkard County Lea

Address P. O. Box 576 Houston, Texas 77001 TYPE OF TEST - (X) ☒ Scheduled ☐ Completion ☐ Special ☒

LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - O RATIO CU. FT./B
		U	S	T	R						WATER BBL'S.	GRAY. OIL BBL'S.	OIL BBL'S.	GAS M.C.F.	
Taylor Glenn OIL CONSERVATION COM. Santa Fe	1	K	3	21	37	3-26-78	F 32/64	95		24	1	32.8	12	355	29,583

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Report casing pressure in lieu of tubing pressure for any well producing through casing.

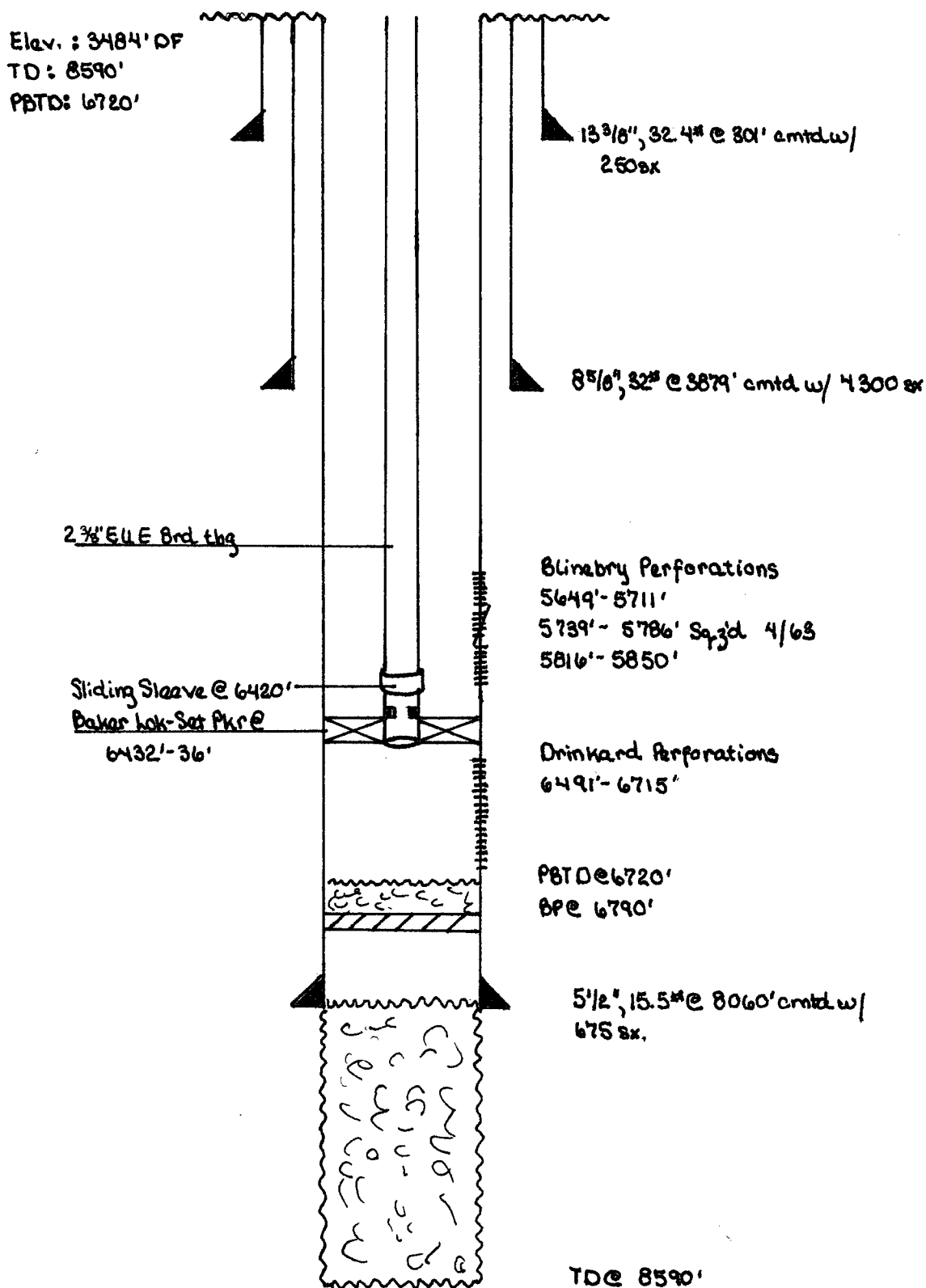
Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 101 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Mr. J. Adams
(Signature)
Supv. Oil Acctg.

4-7-78

Shell-Taylor Glenn No. 1
 Drinkand Field
 Drinkand and Blinebry Pools
 Lea County, New Mexico
 Current Downhole Equipment





INDIVIDUAL
WELL TEST RECORD
(OIL)

WELL DATA

LEASE & WELL

Jaylor Glen No. 1

FIELD Durand

FORMATION

DATE COM.

PROD. METHOD

SINGLE

MULTIPLE

DATUM TO CH

TOTAL DEPTH

PTD

SURFACE CSG.

INTERM. CSG.

OIL STRING

LINER

TYPE COMP.

PROD. INTERVALS

TYPE LIFT EQUIP.

ORIGINAL PRESS.

PRESS. DEPTH & DATE

PUMP DATA

TUBING SIZE

PUMP SIZE

PUMP DEPTH

S.P.M.

STROKE LENGTH

LEGEND

BOPO

GOR

FTP

NON

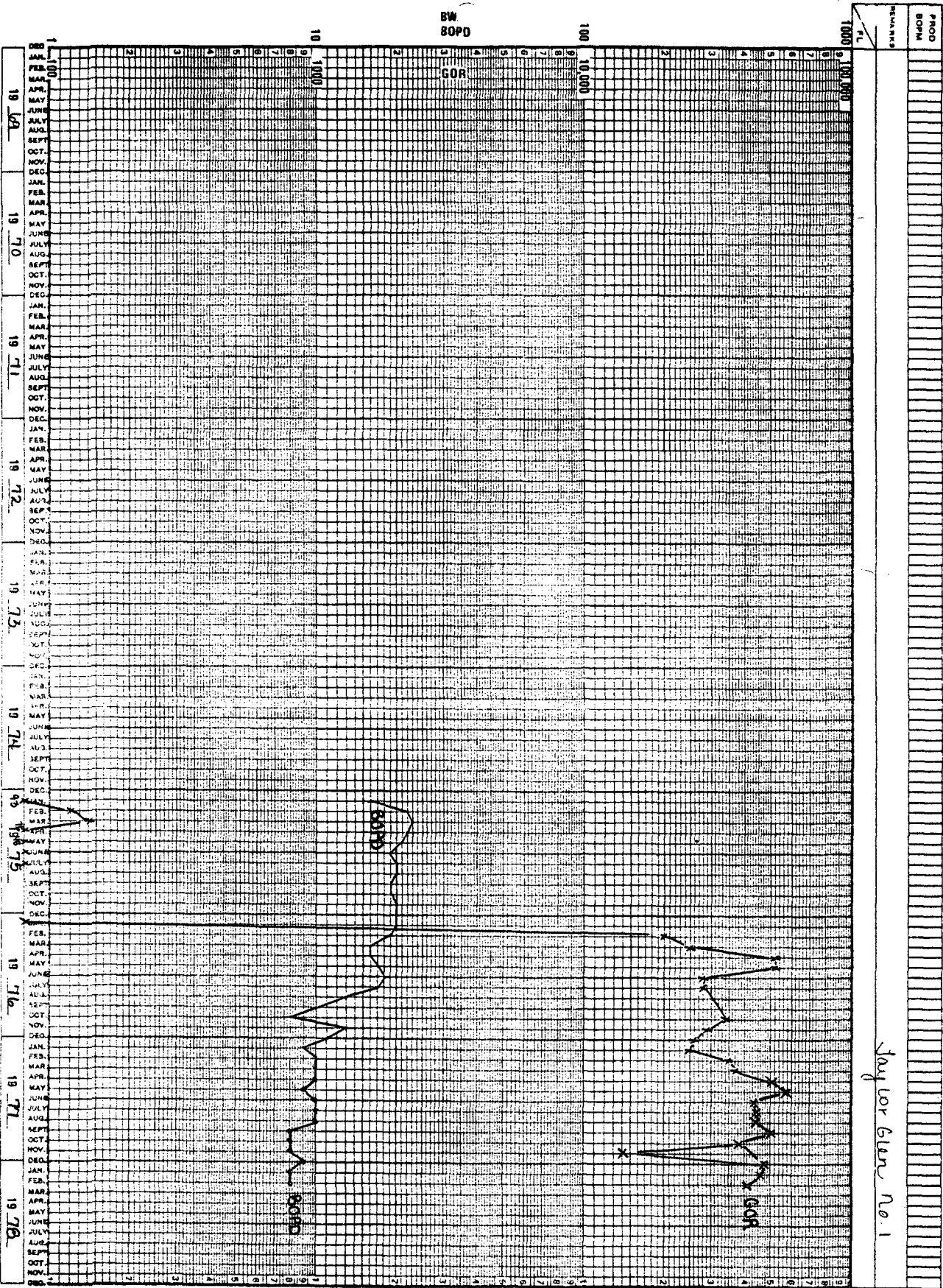
SCHEDULED DOWN TIME CODES

TREATMENT HISTORY

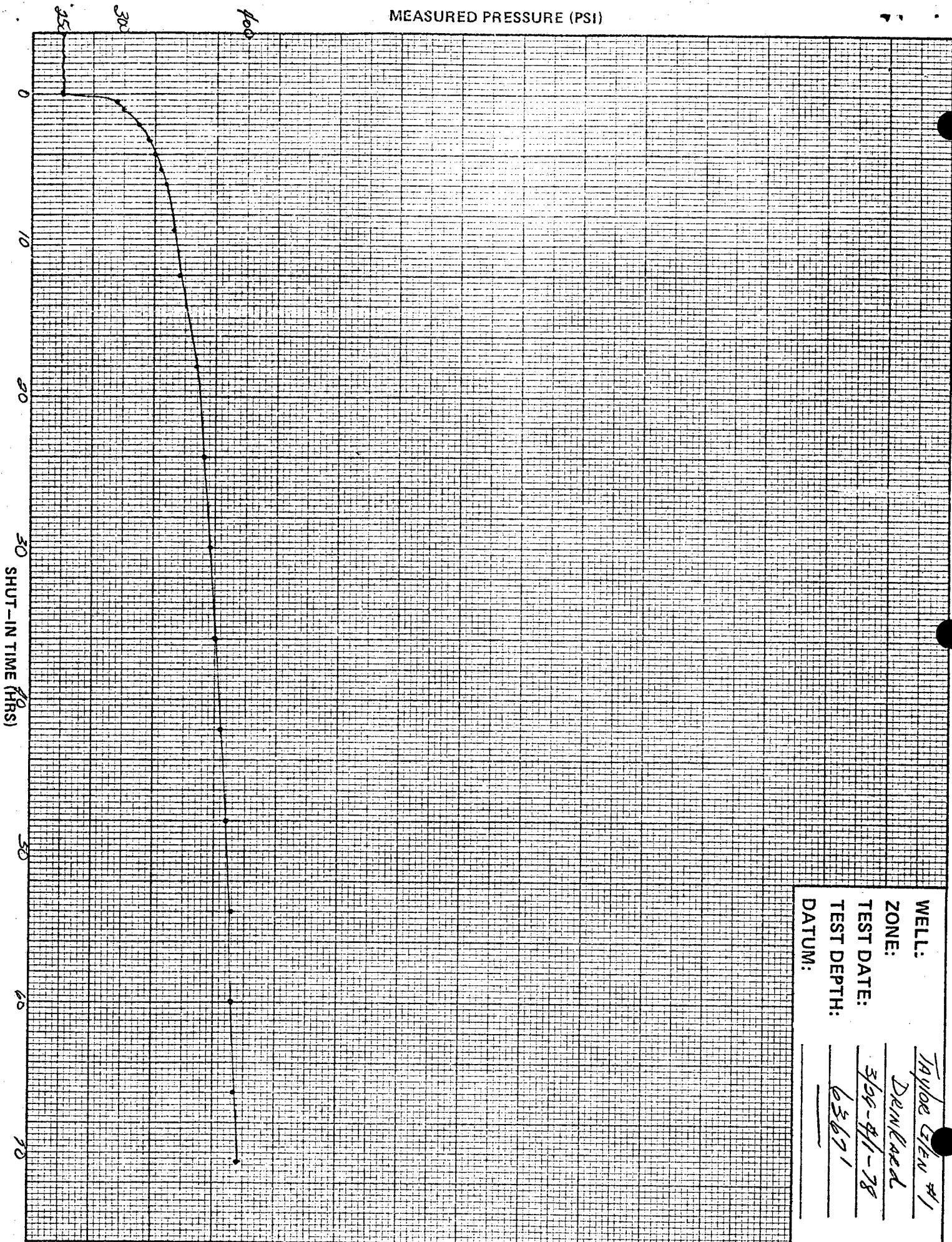
(date, amount, type, improvement)

OTHER INFORMATION

CONTROL NO.



MEASURED PRESSURE (PSI)



WELL: Taylor Glen #1
 ZONE: Denfield
 TEST DATE: 3/28-4/1-78
 TEST DEPTH: 6367'
 DATUM: _____

SHELL OIL COMPANY
SUBSURFACE PRESSURE SURVEY

F12A
3-DIII DEST T-57882
1- Cy Jones - Hobbs.
1- D.J. Roach

Company SHELL Oil Company
Lease TAYLOR GLEN Well No. 1
Field DRINKARD State NEW MEXICO
Test Date 3/29-4/1-78

Producing Formation Darkland
Elevation (CHF, DF, KB, etc.) ()
Datum UNKNOWN subsea, or ()
Tubing Obstruction at 1.78" SA @ 6431
Production Packer at SS @ 6420'
Perforations ()

Instrument Data

Company Running Survey	<u>Shell Oil Co.</u>
Element—Range & No.	<u>2600psi - P384N</u>
Clock — Range & No.	<u>72 hr - 1039A</u>
Calibration Date	<u>2/22/98</u>

Static Pressure Data

Test Depth	6367	ft
Pressure at Datum (6367)	396	psig
Shut-in Time	70.62	hrs
P _j at Datum	—	psig
Shut-in Tubing Pressure	358	psig
Shut-in Casing Pressure	—	psig
Top of Oil	—	
Top of Water	—	
Temperature at _____ feet	—	°F
Date of Last Test		
Pressure @ Datum, Last Test	Unknown	psig
Shut-in Time, Last Test		

Flow Test Data

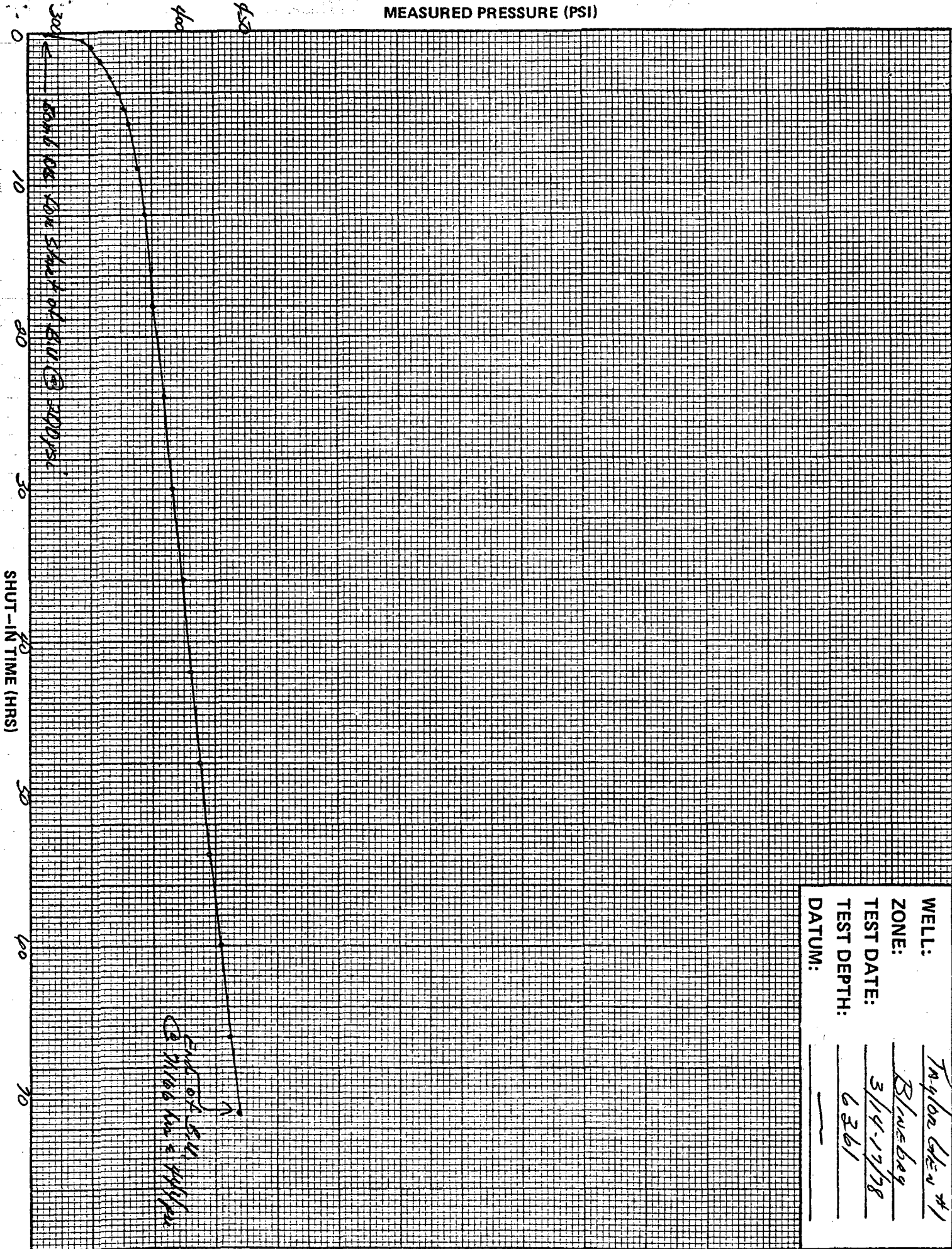
Test Date	_____
Choke Size	_____ in
Period of Stabilized Flow	_____ hrs
Stabilized Production (q)	
Oil _____	bbls/day
Gas _____	MCF/day
Water _____	bbls/day
Flowing Tubing Pressure	_____ psig
Flowing Casing Pressure	_____ psig
Cumulative Production (Q)	
Oil _____	bbls
Gas _____	MCF
Water _____	bbls
Effect. Prod' Life, $t=24 Q/q$	_____ hrs

Remarks:

SURVEYOR

Depth D	Time	Press., P, psig	ΔP	Static Test		
				ΔD	Gradient	
Time	Press. ① 6362 ft	Build-up test		Tubing Press.	Casing Press.	Height of Fluid
		Δt hrs	$\frac{t}{\Delta t} + 1$			
0	852			76	—	—
.083	274					
.166	283					
.250	285					
.333	287					
.500	294					
.666	296					
.833	299					
1.0	300					
1.5	306					
2	313					
3	320					
4	325					
5	329					
6	334					
9	342					
12	347					
18	359					
24	367					
30	372					
36	376					
42	381					
48	386					
54	389					
60	390					
66	393					
70.62	396			358	~	—
					</	

MEASURED PRESSURE (PSI)



WELL: Taylor Lake #1
 ZONE: Blue Bay
 TEST DATE: 3/14-17/78
 TEST DEPTH: 6361
 DATUM: —

SHELL OIL COMPANY

SURFACE PRESSURE SURVEY

F12A

3-Bill Best EB 1882

1-Cy JONES. Hobbs

1-6.5.Ranch

Company Shell Oil Company
Lease Taylor, GLEN Well No. 1
Field DRINKARD State NEW MEXICO
Test Date 3/14-17/78

Producing Formation	<u>DINEBRY</u>
Elevation (CHF, DF, KB, etc.)	<u>()</u>
Datum _____ subsea, or	<u>()</u>
Tubing Obstruction at	<u>1.78" SN @ 6431</u>
Production Packer at	<u>6432'-36'</u>
Perforations	<u>Sliding Sleeve @ 6420</u>

Instrument Data

Company Running Survey	Shell Oil Company
Element—Range & No.	3500 psi - 5583
Clock — Range & No.	12 hr - 10374
Calibration Date	2/21/78

Static Pressure Data

Test Depth	6361	ft
Pressure at Datum (6361)	444	psig
Shut-in Time	71.166	hrs
P _j at Datum	—	psig
Shut-in Tubing Pressure	290	psig
Shut-in Casing Pressure	—	psig
Top of Oil	—	
Top of Water	—	
Temperature at _____ feet	—	°F
Date of Last Test		
Pressure @ Datum, Last Test	UNKNOWN	psig
Shut-in Time, Last Test		

Flow Test Data

Test Date	_____
Choke Size	_____ in
Period of Stabilized Flow	24 hrs
Stabilized Production (q)	_____

Oil	20	bbls/day
Gas	400	MCF/day
Water	—	bbls/day

Flowing Tubing Pressure	_____	psig
Flowing Casing Pressure	_____	psig

Cumulative Production (Q)

Oil	_____	bbls
Gas	_____	MCF
Water	_____	bbls

Effect. Prod' Life, $t=24$ Q/q hrs

Remarks:

SURVEYOR[illegible]