

SHELL OIL COMPANY

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

DHC-264
Due-11/6/78

October 13, 1978

OCT 26 1978

Subject: Application to Downhole Commingle
Shell Taylor-Glenn Well No. 2
Unit Letter I, Located 4620' FSL
and 660' FEL Section 3, T-21-S,
R-37-E, Lea County, New Mexico
Drinkard Field

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 respectfully requests administrative approval under the provisions of Rule 303-C to commingle within the wellbore production from the Drinkard and Tubb^{Gas} pools in our Taylor-Glenn Well No. 2, located in Unit I of Section 3, T-21-S, R-37-E, Lea County, New Mexico.

The subject well is currently producing from the Tubb zone by beam pump at a rate of 6 BOPD + 3 BWPD + 150 MCFGPD. The Drinkard zone has been isolated by a retrievable bridge plug which was set at 6520'. The last test (July 6, 1978) on the Drinkard zone was 2 BOPD + 1 BWPD + 14 MCFGPD. Bottom hole pressure tests run in July, 1978 are as follows:

Tubb Gas	48 Hr. SI	750 PSIG
Drinkard	Static Pressure	768 PSIG

Both zones are in a steady rate of decline.

Shell plans to remove the RBP over the Drinkard zone and produce both zones up 2 3/8" tubing by beam pump. Production should increase to approximately 25 BOPD + 7 BWPD + 400 MCFGPD. Therefore, we will be able to more efficiently and economically produce the remaining reserves in both zones.

Production from the Drinkard and Tubb zones 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 tank battery before being sold, no difference in value should result by commingling within the wellbore of the subject well.

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

- New Mexico Oil Conservation Commission
P. O. Box 1980
Hobbs, NM 88240

OFFSET OPERATORS

TAYLOR-GLENN NO. 2
LEA COUNTY, NEW MEXICO

CONTINENTAL OIL COMPANY
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

Tubb	- 680 ^{75%}	150 mef 91%
Or	- 280 ^{25%}	14 mef 99%
	<u>8</u>	<u>164</u>

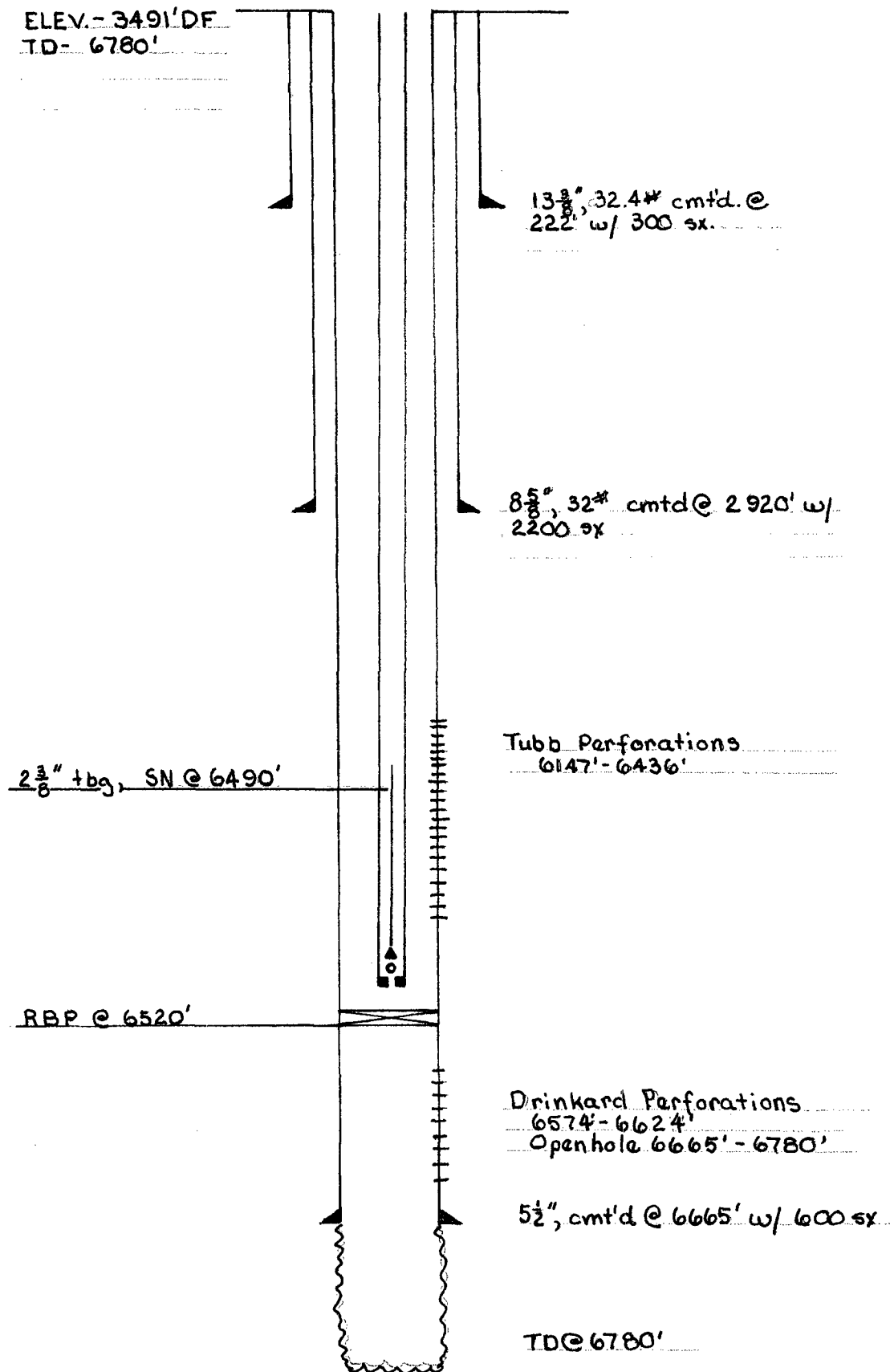
Bottom Pf 4624 = 40 BOPD max

SHELL-TAYLOR GLENN WELL NO. 2

DOWNHOLE COMMINGLING APPLICATION

DRINKARD & TUBB POOLS

ELEV. - 3491' DF
TD - 6780'



Drunkard FieldTaylor Glenn #2LOCATION 11620' FSL & 660' FELSECTION 3, T-21-S, R-37-E

(I)

Drunkard ProducerCOUNTY Lea Co., New MexicoDATUM 3491'

[DF]

G.L. ELEV.

TD 6780'

PBD

[

Elev 3491' DF

CASING RECORD

LOGGING RECORD

SIZE	WT.	DEPTH	CMT.	TOC	DATE	CO.	TYPE	INTERVAL
13 ³ / ₈ "	32.4#	222'	300					
8 ⁵ / ₈ "	32#	2920'	2200					
5 ¹ / ₂ "	-	6665'	600					

LOG TOPS

PERFORATIONS AND/OR OPEN HOLE

ZONE	TOP	SUBSEA	DATE	ZONE	DEPTHS	DENS & SIZE
			6-26-50	Tubb	6324-72, 6395-6407, 6429-	4 JSPF
					36'	(268 holes)
			12-9-64	Drnk	6574, 78, 83, 87, 88, 92, 96,	1 ³ / ₈ " JSPF
					6601, 03, 07, 09, 12, 14, 15,	(16 holes)
					21, 24	
			9-6-74	Tubb	6147, 60, 76, 88, 98, 6207, 15,	1 JSPF
					44, 59, 66, 85, 93, 99	(13 holes)
				Drnk	Open hole 6665'-6780'	
					* NOT OPEN NOW	

SQUEEZE & REPAIR

GOC	DATE	DEPTH	WORK DONE
OWC			

STIMULATION

DATE	ZONE	AMOUNT & TYPE	METHOD	BEFORE	AFTER
3-31-50	Drnk	1000g 20% LST	AT		
7-25-56	"	10,000g Retarded acid			
6-27-58	Tubb	1000g 7 ¹ / ₂ % MCA			
	Tubb	30,000g FLC + 1# 1/2 sand	Frac.		
		1# 1/2 Adomite			
6-20-61	Drnk	250g 15% FeA			
		750g 15% acid			
4-25-63	Tubb	1500g FeA			
12-10-64	Drnk	1500g 15% NEA			
		10,000g LC + 1/20# 1/2 Adomite	Frac. 6574'-6665'		
		+ 1/2# 1/2 sand			

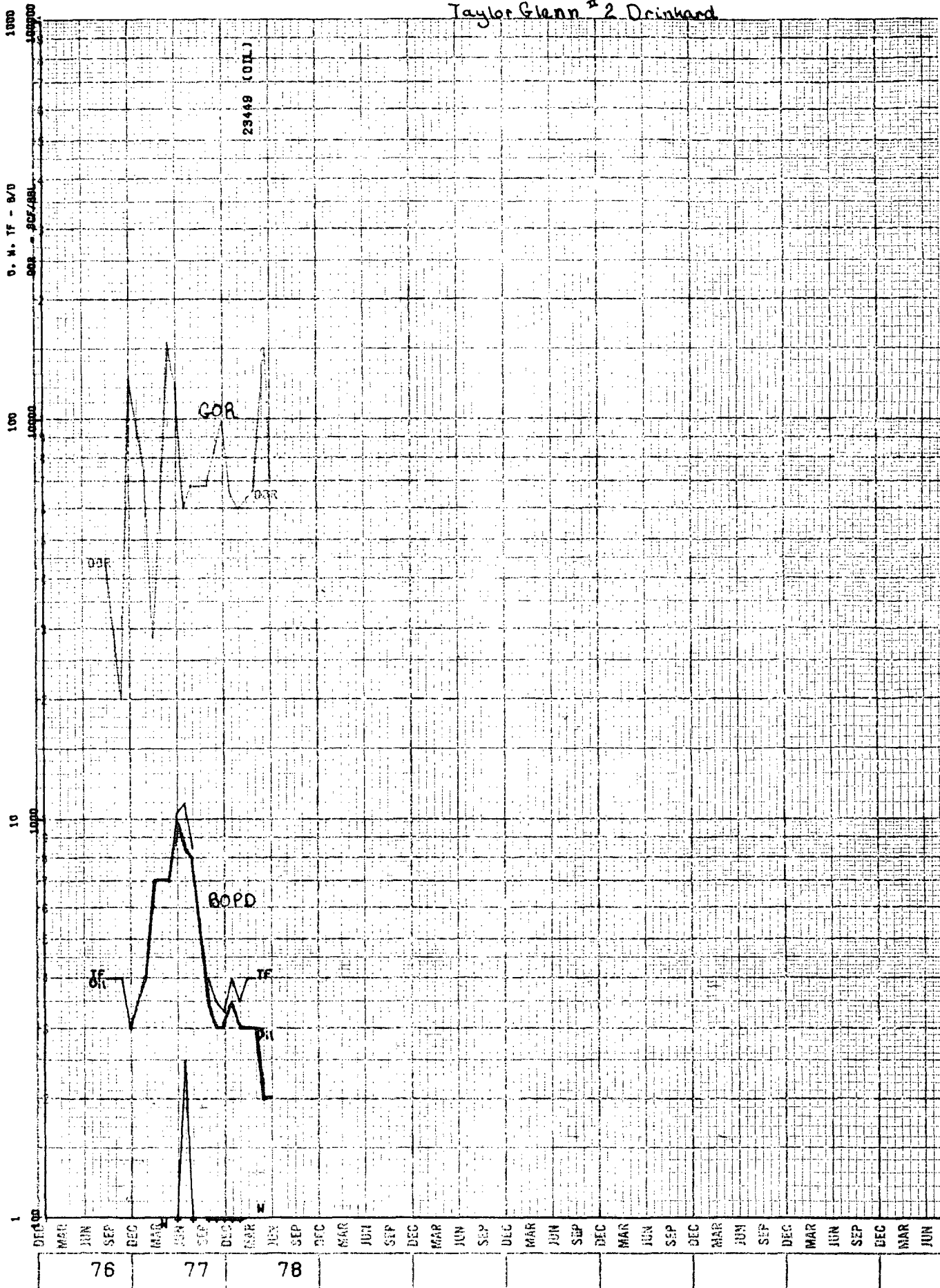
OPT

DATA AVAILABLE

DST ☐
CORE ☐PVT ☐
OTHER ☐REMARKS: Drnd 9-5-74DATE: 6-20-77

ALB

Taylor Glenn #2 Drinkard



[illegible]

SHELL OIL COMPANY
SUBSURFACE PRESSURE SURVEY

Company Shell Oil Company
Lease Taylor-Glen Well No. 21 1/2
Field _____ State N.M.
Test Date 7-6-78

Producing Formation	DRIN KALGO
Elevation (CHF, DF, KB, etc.)	()
Datum _____ subsea, or	()
Tubing Obstruction at	
Production Packer at	
Perforations	

Instrument Data

Company Running Survey	Shell O.C.G.
Element—Range & No.	8362/3600
Clock — Range & No.	1387/342
Calibration Date	

Static Pressure Data

Test Depth	6530'	ft
Pressure at Datum (653')	768	psig
Shut-in Time	Static	hrs
P _i at Datum		psig
Shut-in Tubing Pressure	650	psig
Shut-in Casing Pressure	NK	psig
Top of Oil	NK	
Top of Water	NK	
Temperature at _____ feet	NK	°F
Date of Last Test	none	
Pressure @ Datum, Last Test	1	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

[illegible]

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO TESTS

REPLACES FORM OGD 10 OIL

C-116

Revised 1-1-65

Operator Shell Oil Company		Pool Lea		County Lea										
Address P. O. Box 576 Houston, Texas 77001		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Scheduled <input type="checkbox"/> Special <input checked="" type="checkbox"/>										
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL	
		U	S	T						R	WATER BBLs.	GRAV. OIL		OIL BBLs.
Taylor Glenn	2	I	3	21 S 37 E	7-24-78	P 32/64	40		24	3	36.2	9	150	16,667

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.

Michael J. Smith for A. Ramirez
(Signature)

Supv. Oil Acctg.

(Title)

7-25-78

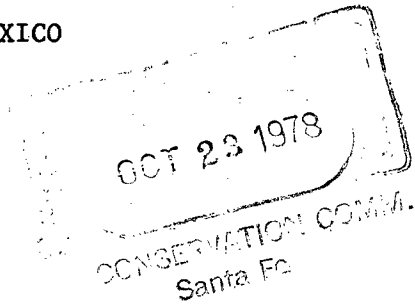
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OIL CONSERVATION COMMISSION
Hobbs DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE October 19, 1978

RE: Proposed MC _____
Proposed DHC X _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____



Gentlemen:

I have examined the application dated _____
for the Shell Oil Co. Taylor Glenn #2-I 3-21-37
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

O.K.----J.S.

Yours very truly,