



MIDLAND PRODUCTION DISTRICT

SUN PRODUCTION COMPANY 901 W. WALL, POST OFFICE BOX 1861, MIDLAND, TEXAS 79702 (915) 682-8271

April 18, 1979

DHC - 280  
Due - 5/14/79

Mr. Joe D. Ramey  
Energy & Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87501

RECEIVED  
APR 23 1979  
OIL CONSERVATION DIVISION  
SANTA FE

RE: Annie Christmas No. 1  
Section 1-22S-37E  
Drinkard Pool  
Annie Christmas No. 1  
Section 1-22S-37E  
Wantz Granite Wash Pool  
Request to Downhole Comingling  
The Drinkard and Wantz  
Granite Wash

Dear Sir:

Your administrative approval is requested for an exception to Rule 303-A and 303-C4 to permit downhole comingling of production in the subject well from the Drinkard and Wantz Granite Wash Pools (Comingling in surface storage by Administrative Order PC-469, dated May 7, 1975). Comingled production from the same two pools was approved for our Walter Lynch #2 per DHC-272, dated February 9, 1979. There is no evidence of fluid incompatibility, and we do not expect any reservoir damage due to downhole comingling within the well-bore. Ownership of the two pools of the subject well is common and correlative rights will not be violated.

Currently the Wantz is pumping and the Drinkard flowing. Upon approval to comingling we will install a rod pump on the Drinkard so that both zones will be pumped. We anticipate the Drinkard to produce 33% of the oil and the remaining 67% will be allocated to the Wantz. Casinghead gas production will be discussed at the hearing to appear on the Docket May 10, 1979. Total daily production from both zones will not exceed 40 bbls of oil per day.

Additional information concerning this application as outlined in Rule 303-C is attached for your consideration.

10 252 - 61  
160  
412 - 38

Yours very truly,  
*Carson Muntzel*  
Carson Muntzel  
Production Staff Associate

Dr 10  
GW 22  
32

Attachments

CM:jo  
cc: See next page

GOR			
6000	---	Dr - 580 (9%)	126 mcf 44%
2000	---	GW - 22 81%	140 56%
		27	286

A DIVISION OF SUN OIL COMPANY (DELAWARE)

Bottoms of 7296 max 50 BOPL

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

Gulf Oil Corporation  
Box 1150 Gulf Bldg.  
306 W. Wall Street  
Midland, TX 79701

Atlantic Richfield Company  
P. O. Box 1710  
Broadmoor Shopping Center  
Hobbs, NM 88240

Exxon  
P. O. Box 1600  
Midland, TX 79702

Texas Pacific Oil Company  
P. O. Box 4067  
Midland, TX 79702



HISTORY

ANNIE CHRISTMAS

4/9-79

LOCATION: 669' FSL & 1986' FWL, Section 1, Township 22-S, Range 37-E Unit N.

LOGS:

ELEVATION: GL 3350' DF 3361' RT 3362'

Well was drilled to a T.D. of 5250' May and June 1945. Had set 13-3/8, 9-5/8 & 7" csgs. Had DST'd 5080-5165'. GTS in 4 min, mud in 11 min, oil in 15 min. Perf Paddock 5165-5185' w/60 shots. Acidized w/1000 gal I.P. F 12 hrs 742 BO, no water, 521 MCF gas.

Oct. 1959; Acdz Paddock perfs 5165-85 w/10,000 gal 15% XLST w/ 60 RCNBS. MP 4000, FP 3400. AIR 6.6 BPM. Before W.O 6 BOPD. After W.O. 50 BOPD, 127 MCFPD.

Mar. 1962; Perf Paddock 5107-14, 18-20 & 28-40' w/2 bullets 1 ft. Frac all perfs w/20,000 gals ref oil & 30,000# sd in 4 stages. MP 5700, Min 5500, AIR 14 BPM. Tested 137 BOPD, no water, 266 MCF, GOR 1940. Before W.O. 7 BOPD, 1 1/2 BW, 62 MCF, 8850 GOR.

June-Aug. 1973: Deepened well w/6 1/4" bit to 7402'. R & C 5", 15# & 13#, N-80 & K-55 liner C.S. 7402', FC 7369, T.O.L. 4960'. Cmtd w/200 sx C1 C. Rev 88 sks off top of liner. Tested liner & csg to 700# OK. Perf G.W. 7278-96 w/1 JSP2F (10 holes) w/3 1/2" DML C.G. sptd 160 gal 15% NEHCL over perfs. Acdz w/2000 gal BDP 1800/ MP 2400, FP 2000, ISIP 1400. AIR 2.7 BPM. Swbd in. F 24 hrs 81 BO & 2 BW, 24/64 chk, TP 80. Frac perfs w/6000 gal OBUF w/6000# 20-40 sand. BDP 4500, AP 3800, ISIP 2400, 15 min 2000, AIR 5.2 BPM. Pot 24 hrs F 194 BO, 2 BW 16/64 chk, TP 320#, 189.5 MCF. Kill well w/water. Set BP @ 6960. Perf Drinkard 6833', 35, 41, 43, 45, 6925 & 27 w/1-11/16" tbg gun. Acdz w/1500 gal 15% FE HCL & 8 RCNB's. BDP 4500, Min 2300, ISIP 0, gd ball act: Swbd in FARO 3.3 MCF on 13/64 chk, TP 1720#. Killed well w/S.W. Set Otis W.B. pkr @ 7254 on W.L. Ran dual equipment. Swabbed both zones in (UT) CAOF pot on Drinkard 5726 MCFPD. (LT) 24 hrs F 100 BO, 1 BW 26/64 chk TP 40-190. Acdz (LT) w/5000 gal 5% NEHCL w/2 gal J-4A/1000 in 4 stgs w/4 RCNB's after first 3 stgs. MP 3000, MP 900, ISIP 1600, 10 min 600, AIR 3.6 BPM, gd ball act. Swbd in. Tested 24 hrs FTP 80-130#, 24/64 chk, 118 BOPD & 1 BWPD.

Feb & March 1976: Kill well w/lease oil. Perf Granite Wash 7217, 18, 19, 23, 25, 33, 35, 37 w/3-1/8" CG. Acdz perfs w/2000 gal 15% NEHCL w/3 RCNBS after each 500 gal. BDP 2600, MP 2600, FP 2000, ISIP 1200. Swbd in. Flowed 20 BO overnite TP 250#. All water is 2% KCL w/1 gal Moroflo/1000. Kill w/oil. Set RBP @ 6750'. Perf Drinkard 6613, 21 & 23 w/1-9/10" gun. BD perfs w/2 bbl water 3100# @ 2 BPM. Acdz w/750 gal w/3 RCNBs. BDP 3100, MP 3100, AP 2400, FP 2200, ISIP 1300#, AIR 1-3/4 BPM. Flowed and swbd well in. Flowed well 2 hrs. TP 1800-400. Kill w/KCL water Set BP @ 6550. Perf Drinkard 6446, 48, 69 & 71 w/1-9/16 gun. BP perfs w/2 bbl water 2900# @ 2 BPM. Acdz perfs w/1000 gal 15% NEHCL w/4 RCNBS BDP 2900, MP 2900, AP 2000, FP 2200, ISIP VAC. AIR 1-3/4 BPM. Swbd in. Flowed 1 1/4 hrs TP 1200-700. (Est 2.3 MMCFPD) Fluid hit, flow 3/4 hrs on 16/64 chk 3 BO, 3 BLW, TP 700-800#. Killed well. Set BP @ 6390'. Perf Drinkard 6291, 93, 95, 6307, 11, 13, 17, 19, 23 & 25. W/1-9/16 gun. Acdz w/2500 gal 15% NEHCL w/3 RCNB's after each 500 gal. BDP vac, MP 1150, FP vac. AIR 2 BPM. Swabbed well in. F 6 hrs rec 25 BO & 51 BLW TP 1000-600, 15 min SIP 1300#. Used 760 B.W. to control well while running tbg. Swbd both zones. Before W.O. UT f 7 BO, 1 BW + 330 MCF.

HISTORY (CONT'D)

LT f 80 BO & 5 BW.

After: UT F 18 BO, 18 BLW, 337 MCF, 18,722 GOR, 32/64, 70# FTP  
(3/21/74) LT F 106 BO, 0 BW, 118 MCF, 1113 GOR, 20/64, 100# FTP

5/76 Ran rods & pump in LT @ 4921' POP  $11\frac{1}{2}$  x 76 x  $1\frac{1}{2}$   
After: LT - 96 BO, 0 BW, 76 MCF, 792 GOR  
Before: LT. Dead.

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS - OIL RATIO TESTS

C-116  
Revised 1-1-65

Operator		Pool			County										
Sun Oil Company		Drinkard			Ira										
Address				TYPE OF TEST - (X)		Completion <input type="checkbox"/>		Special <input type="checkbox"/>							
P. O. Box 1861 - Midland, Texas 79702															
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 BBL.	GRAV. OIL BBL.		OIL BBL.	GAS M.C.F.
Annie Christmas	1 -	N	1	22	37	1-20-79	32/64	50	6	24	0	42.0	5	126	25200

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)  
 Production Staff Associate  
 2-1-79  
 (Date)



WELL COMPLETION SKETCHES  
SUN-0041-A

ANNEX CHRISTMAS #1  
WELL

2-15-79  
DATE JAG

FIELD  
3362-KB  
EL: 3361-DF  
3350-6L

- PRESENT COMPLETION
- SUGGESTED COMPLETION

ORIGINAL COMP.

WELL CLASS \_\_\_\_\_

PERMANENT WELL BORE DATA

13 7/8" @ 326' w/ 350sx

9 5/8" @ 2849' w/ 2050sx

TOTALER: 4960' (CMT CMT)

OLD PADDACK PERFS:  
5107-85, 102 holes

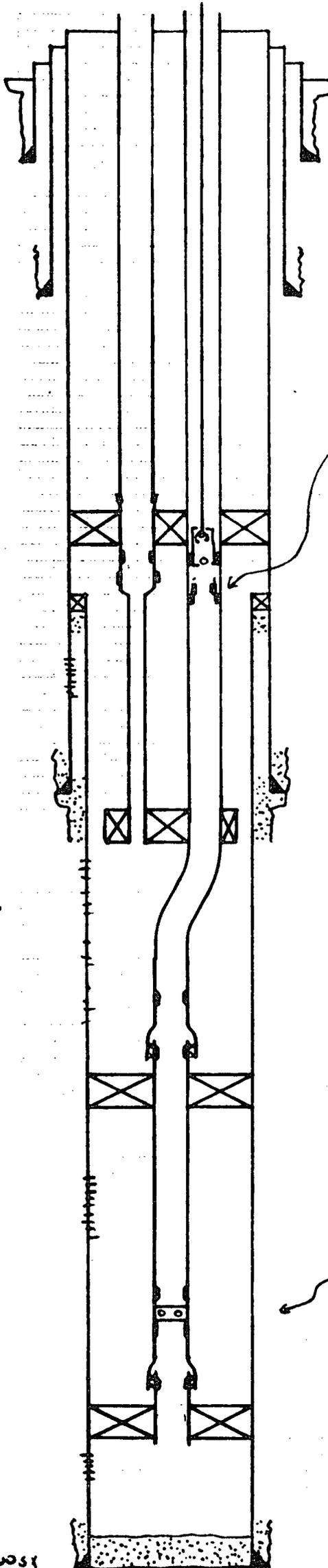
7", 23" @ 5243' w/ 250sx

DRINKARD PERFS: 6291, 93, 95  
6307, 11, 13, 17, 19, 23, 25, 6446, 48, 69, 71,  
6613, 21, 23, 6833, 35, 41, 43, 45;  
22 holes

GRANITE WASH PERFS: 7217, 18, 19,  
72 22, 23, 25, 25, 35, 37; 9 holes

LOWER GRANITE WASH PERFS  
7278-96, 153/2PT, 5holes

PSTD-7369'  
5", 13" J-55 + 15" N-40, @ 7402' w/ 200sx  
TD-7402'



DATA ON THIS COMPLETION

LT = 2 3/8" + 1" TBC

LT = 2 3/8" TBC

SEE ATTACHED TBA SHEETS  
FOR DETAILS ON FLOW CONTROL

76 ROD STRING w/ 1 1/2 INCH  
PUMP + MECH. HOLD DOWN

MECH ANCHOR FROM ENSURE PUMP  
@ 4921' w/ 1/2" hole + NO FISHING

OTIS "RDH" PKR @ 4849' w/ 3/4" w/  
ON SHIRT STRING (LT)

HT: OTIS "N" NIPPLE, TELESCOPIC  
JOINT + DOWN TO 1" @ 4860'

OTIS FAB. GUARD STRIP @ 6144

OTIS "C" NIPPLE @ 7148'

OTIS "RH" PKR @ 7181' w/  
OSTSD, "N" NIPPLE, OS w/o GUARD

OTIS "X" NIPPLE, PORTED COMPLETE  
+ PACKER NIPPLE @ 7247'

OTIS "WB" PERM. PKR @ 725'  
w/OSTSD, "N" NIPPLE, OS w/o GUARD

ANNEX CHRISTMAS #1  
 WELL

2-15-79  
 DATE JAG

FIELD  
 3362-KB  
 EL: 3361-OF  
 3350-6C

- PRESENT COMPLETION
- SUGGESTED COMPLETION

ORIGINAL COMP.

WELL CLASS \_\_\_\_\_

PERMANENT WELL BORE DATA

13 7/8" @ 326' w/ 350sx

9 5/8" @ 2849' w/ 2050sx

TOTAL DEPTH: 4960' (G.M.F.C.M.E.)

OLD Paddock PERES:

5107-85, 102 holes

7" 23 1/2" @ 5243' w/ 250sx

DRINKING PERES: 6291, 93, 95

6302, 11, 12, 12, 19, 23, 25, (446, 48, 69, 71,

6613, 21, 22, 6822, 35, 41, 43, 45,

22 holes

GRANITE WASH PERES: 7217, 18, 19,

7222, 23, 25, 33, 35, 37; 9 holes

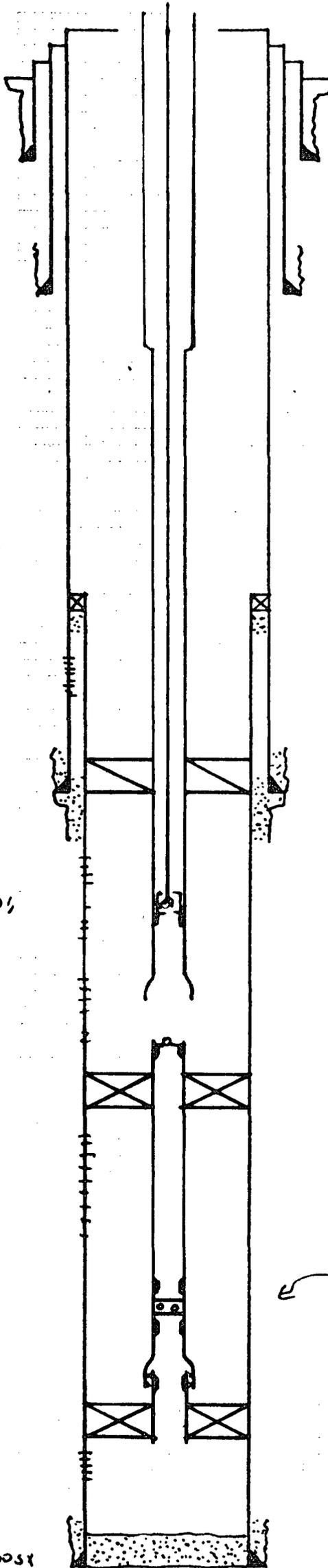
LOWER GRANITE WASH PERES

7A78-96 158/2FT, 5 holes

POTA-2369'

5" 13" J-55 + 1 1/2" N-80 @ 7402' w/ 200sx

TD-7402'



DATA ON THIS COMPLETION

2 7/8" 6.5" J-55 SURF-2000

2 3/8" 4.7" J-55 2000'-6900'

TAC @ 5950'

OTIS "C" NECKLE @ 6865'

OTIS OS w/o LUGS @ 6900'

OTIS "RH" PKR @ 7181'

w/OSTED, "X" NECKLE, 6" TIE-BACK

STAND-BY VALVE ON "X" NECKLE

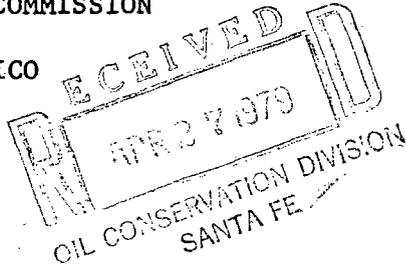
OTIS "X" NECKLE, PORTED COMPLETION  
 + PACKING NECKLE @ 7247'

OTIS "WB" PERM. PKR @ 72

w/OSTED, "N" NECKLE; OS w/o. LUGS

OIL CONSERVATION COMMISSION  
Hobbs DISTRICT

OIL CONSERVATION COMMISSION  
BOX 2088  
SANTA FE, NEW MEXICO



DATE April 23, 1979

RE: Proposed MC \_\_\_\_\_  
Proposed DHC \_\_\_\_\_ X  
Proposed NSL \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_

Gentlemen:

I have examined the application dated \_\_\_\_\_  
for the Sun Oil Company Annie Christmas No. 1-N 1-22-37  
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

O.K.---J.S.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours very truly,

Jerry Selton  
*me*