



SUN PRODUCTION COMPANY

NEW MEXICO DISTRICT

682-2271

April 18, 1979

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

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.

Yours very truly,

Carson Muntzel
Production Staff Associate

Attachments

CM:jo

cc: See next page

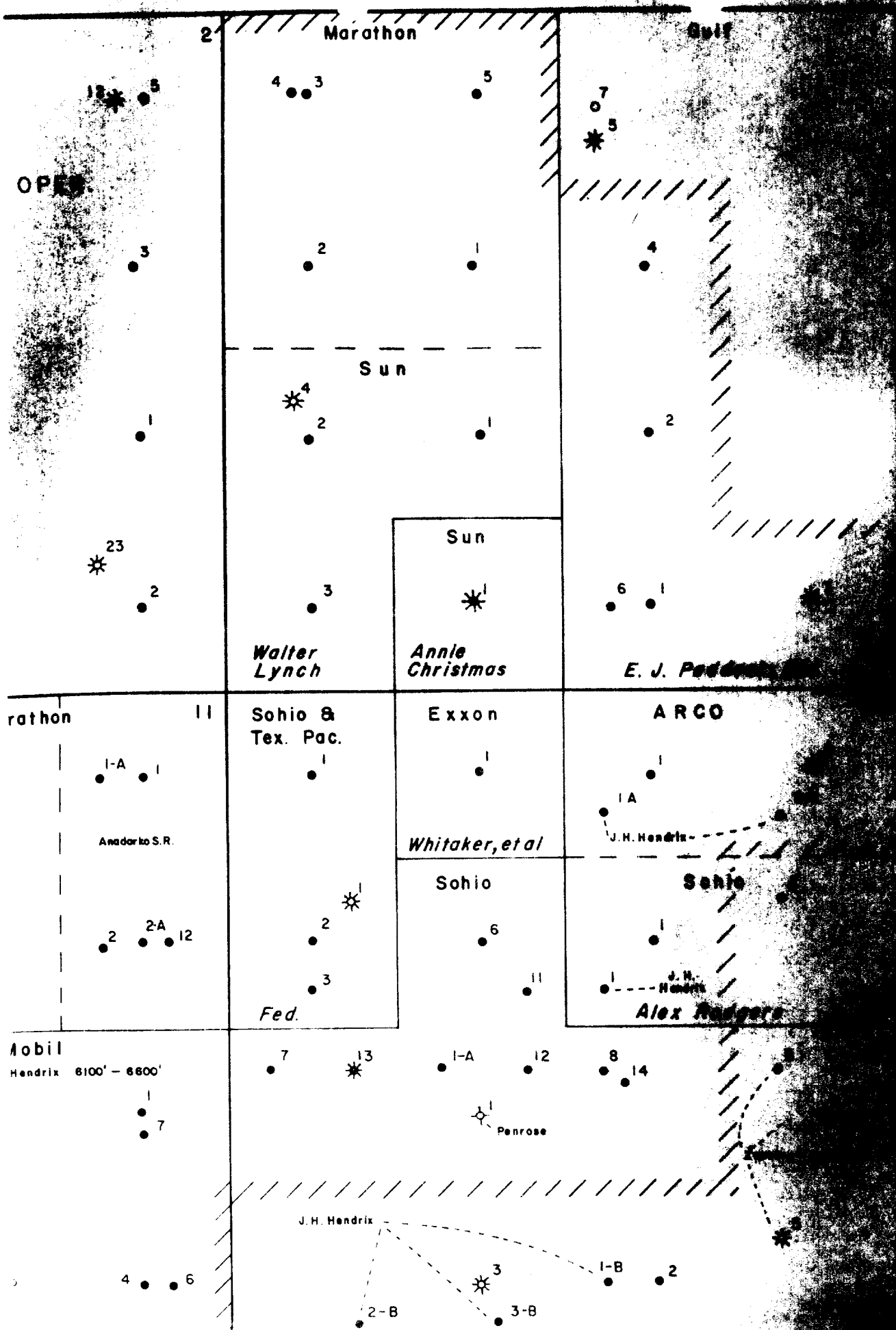
Energy and Minerals Department
Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88240

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'. Cmdt w/200 sx CI 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" tbq 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 MMCPPD) 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 tbq. Swbd both zones. Before W.O. UT f 7 BO, 1 BW + 330 MCF.

HISTORY (CONT'D)

LT f 80 B0 & 5 BW.

After: UT F 18 B0, 18 BLW, 337 MCF, 18,722 GOR, 32/64, 70# FTP
(3/21/74) LT F 106 B0, 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 B0, 0 BW, 76 MCF, 792 GOR
Before: LT. Dead.

**NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS**

C116
Revised 1-1-65

Operator Sun Oil Company		Pool Drinkard		County Lea										
Address P. O. Box 1861 - Midland, Texas 79702		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Special <input type="checkbox"/>										
LEASE NAME Annie Christmas	WELL NO. 1	LOCATION			DATE OF TEST 1-20-79	CHOKE SIZE 32/64	TBG. PRESS. 50	DAILY ALLOW-ABLE 6	LENGTH OF TEST 24	PROD. DURING TEST			GAS - OIL RATIO CU. FT./BBL.	
		U N	S 1	T 22						R 37	WATER BBLs.	GRAV. OIL BBLs.		GAS M.C.F.
										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

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Production Staff Associate

2-13-79

(Tide)

WELL COMPLETION SKETCHES
SUN-6641-A

ANWET CHRISTMAS #1
WELL

2-15-79
DATE

☒ PRESENT COMPLETION

☐ SUGGESTED COMPLETION

PERMANENT WELL BORE DATA

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

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

TOE LINE: 4960' (CMT CMT)

OLD PADDOCK PERFS:

5107-85, 102 holes

7, 23" @ 5243' w/ 250sx

DESKAND PERFS: 6291, 93, 95

6302, 11, 13, 17, 19, 21, 25, 6446, 48, 69, 71,

6613, 21, 23, 6833, 35, 41, 43, 45,

22 holes

GRANITE WASH PERFS: 7217, 18, 19,

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

LOWER GRANITE WASH PERFS

7228-96, 132/ART, 5 holes

POTD-7369'

5, 13" J-55 + 15" N-80, @ 7402' w/ 200sx

TD-7402'

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

☐ ORIGINAL COMP.

WELL CLASS _____

DATA ON THIS COMPLETION

UT = 2 1/8" + 1" TBC

LT = 2 3/8" TBC

SEE ATTACHED TBC SHEETS
FOR DETAILS ON FLOW STRIP

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

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

OTIS "RDH" PKR @ 4849' w/ 3/4"
ON SHORT STRING (UT)

HT: OTIS "N" NIPPLE, TELESCOPE
JOINT + XDOWN TO 1" @ 4860'

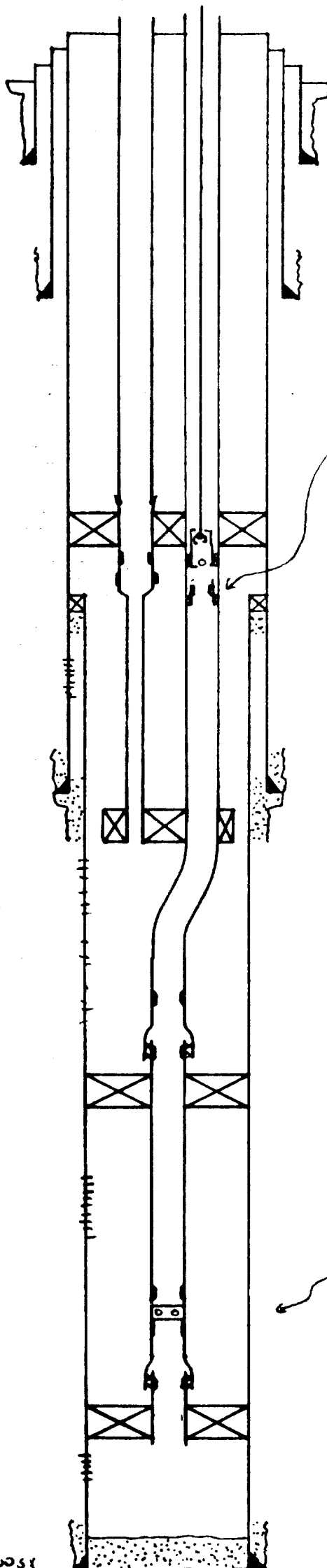
OTIS FAB, GUIDER SLEEVE @ 6174'

OTIS "C" NIPPLE @ 7148'

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

OTIS "X" NIPPLE, PORTION COMPLETE
+ PACKING NIPPLE @ 7247'

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



WELL COMPLETION SKETCHES
SUN-0041-A

ANNEX CHRISTMAS #1
WELL

2-15-79

DATE 5A6

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

☐ PRESENT COMPLETION

☒ SUGGESTED COMPLETION

☐ ORIGINAL COMP.

WELL CLASS _____

PERMANENT WELL BORE DATA

DATA ON THIS COMPLETION

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

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

T.O. LINDER: 4960' (C.M.F.C.M.A.)

OLD PADDOCK PERFS:

5107-85, 102 holes

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

DRINKARD PERFS: 6291, 93, 75

6307, 11, 12, 17, 19, 23, 25, 6446, 48, 69, 71,

6612, 21, 23, 6833, 35, 41, 43, 45,

22 holes

GRANITE WASH PERFS: 7217, 18, 19,

7222, 23, 35, 33, 35, 37; 940/05

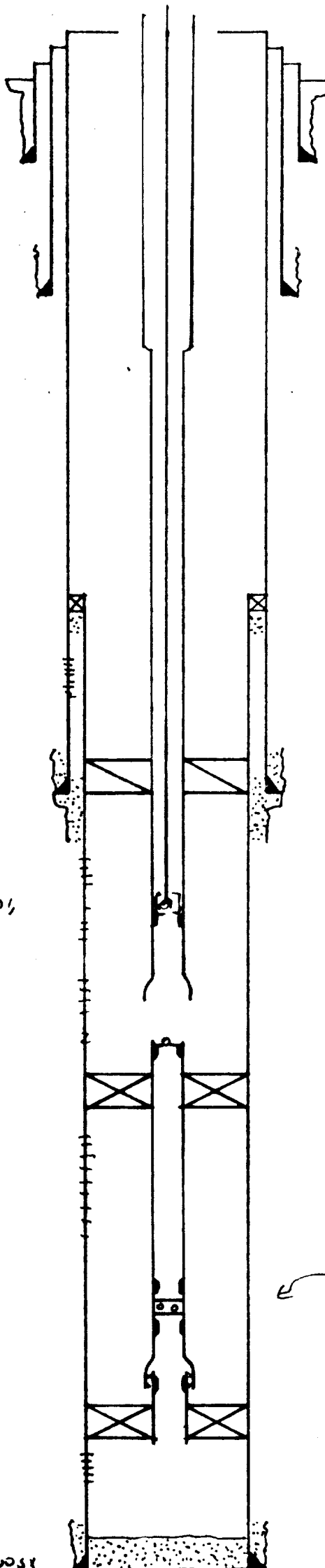
LOWER GRANITE WASH PERFS

7277-96 158/2FT, 5 holes

POTD-2369'

5", 13", J-55 + 15" N-80 @ 7402' w/ 200 SX

T.O. = 7402'



2 7/8", 6.5", J-55 5446-2000

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

TAC @ 5950'

OTIS "C" NEPPLE @ 6865

OTIS OS w/o LUGS @ 6900'

OTIS "RH" PKR @ 7181'

w/OSTED, "X" NEPPLE, LATCH-R

STAND-BY VALVE ON "X" NEPP

OTIS "X" NEPPLE, PORTED COMPL

+ PACKING NEPPLE @ 7247'

OTIS "WB" PERM. PKR @ 72

w/OSTED, "N" NEPPLE; OS w/o LUGS