



POST OFFICE BOX 3116 • MIDLAND, TEXAS 79702-3116

PRODUCTION DEPARTMENT SOUTHWESTERN DIVISION May 3, 1989 Penrose #4 Downhole Commingling



Jerry Sexton Supervisor, District I Hobbs District Office Oil Conservation Division Post Office Box 1980 Hobbs, New Mexico 88241-1980

Dear Mr. Sexton:

Per your discussion with Bill Duncan on April 26, 1989, we are taking action to add the Blinebry Oil and Gas pool in the Penrose #4. As you requested, I am including information on the completion procedure for the well thus far. I have included the actual morning report, a morning report summary for your convenience, Exhibit 14 for Case No. 9398 showing the proposed allocation formula, and Order No. R-8707, which called for separate testing of the Tubb zone in the Penrose #4.

As Bill Duncan discussed with you, we initially stabilized Wantz Granite Wash and Drinkard production. The 5-day average production for 3/9/89 - 3/13/89 was 45 bopd, 6 bwpd, and 167 mcfpd. We then set a cast-iron bridge plug above the Drinkard and Wantz Granite Wash on 3/16/89 and perforated the Tubb Oil and Gas pool. The 4-day average production for 4/11/89 - 4/14/89 was 32 bopd, 3 bwpd, 139 mcfpd. This production was much higher than was expected for the Tubb Oil and Gas pool and very similar to production data below the cast-iron bridge plug. Therefore, communication behind pipe was suspected. On 4/14/89 the cast-iron bridge plug was knocked to the bottom of the well. The 10-day average production for 4/16/89 - 4/23/89 and 4/25/89 - 4/26/89 was 34 bopd, 15 bwpd, 155 mcfpd. These results indicated communication behind pipe and verified that the Tubb produced small amounts of fluid and gas. Dynamometer analyses were run at points during the procedure and all of them indicated that the well was pumped off.

I feel that the percentages by zone shown by these tests so far are very similar to those proposed for the allocation formula in attached Exhibit No. 14. The Tubb produced very little oil, some water, and maybe a little bit of gas. Separately testing zones can be expensive (you can see from the morning report that we've already spent \$93,175 before adding the Blinebry) and often uncertain, especially with production of small volumes. Therefore, at this point, I would recommend the same allocation formula percentages as shown in Exhibit 14. These were based on average production from each pool for a 9 section area surrounding the Penrose lease.

If you have any questions or desire any additional information, please feel free to call me at (915) 688-6740 or Bill Duncan at (915) 688-7538.

Sincerely, SaryEdould Gary^UE. Gould

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SOUTHWESTERN DIVISION OPERATIONS REPORT

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EXXON CO., U.S.A.

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SOUTHWESTERN DIVISION OPERATIONS REPORT

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TEST BOD WELLHERD TRID OUT OF HOLE WITH TUBING. GET ROP AT 4330 PT, SION SET ROP AT 4330 PT, SION ATTEMPT TO BAIL V: SACK SATUD ON PLUG, PLUG HAD UNISEATED AND FELL COUND ON PLUG, PLUG UTRELITUE AND RUD TUBING TO REFRIEVE AND RUD KILL STRING, SET CIDD 316 OF PULL KTLL STRING, SET CIDD AT 4300 PT, PERF WELL ATTEND TO SCOTT THE STORE AND FELL COUND HOLE ALC NOT TEST PULLS TO SCOT TESTED OK, PERF WELL AT SET PULL AT 150 PT, TO SCOT TESTED OK, PERF WELL AT SET PULL AT 150 PT, THOUS OF PT, TOTAL OF PDT PROVER AND THE TO TO TEST TUBING, CALLER AND TEST PULLS TO SCOT TESTED OK, PERF WELL AT SET PULLS TO SCOT TESTED OK, PERF WELL AT SET PULLS TO SCOT TESTED OK, PERF WELL AT SET PULLS TO SCOT TESTED OK, PERF WILL, PICK UP DIT AND THE AND THE TO TO TEST TUBING, PARKER, COUND COL UNSALINE, ATTEMPT TO TEST TUBING, PARKER, COUND AND THOLE STORE DUT HOLE STORE TO HOLE STORE AT HOLE STORE AT ON THE STORE TO SAME STORE AND THE PERF TO STARE STORE AT SOLO TO SAME A TUBING, AND BACK SIDE, ALL OK, PUMP PPT 68, STO AT SOLO TO AND AND PARKS, DEW AND TO AND PARKER AT SOLO TO SAME AND PARKS, DEW AND TO AND PARKER AT SOLO TO BACKER TUBING, AND BACK SIDE, ALL OK, PUMP PPT 68, STO AT SOLO TO AND PARKS, TUBING, AND BACK SIDE, ALL OK, PUMP PPT 68, STO AT SOLO TO AND PARKS, TUBING, AND BACK SIDE, ALL OK, PUMP PPT 68, STO AT SOLO TO AND PARKS, AND BACK SIDE, ALL OK, PUMP PPT 68, STO AT SOLO TO AND PARKS, AND BACK SIDE, ALL OK, PUMP PPT 68, STO AT SOLO TO SOLO TO SOLO SAME, STARTING FULLS AND BACK AT SOLO FT. FISH FULL DATE FULLS FULLS AND BACK AT SOLO TO BLOW WELL DOWND, PREPARE TO SWAB, ATTERED TO AND AND FARME AND FOR PERFECTION AND, AND	31489		30,430
GET RSP AT 4308 FT, SIGNU 31583 PULL YOLL STATUDE, SET RBP W/ WARELINE AT 6308 FT, SIGNU 31583 PULL YOLL STATUDE, STATUDE FELL DOWN HOLE, PIGE RSD 000 PLUC, PIGE HAT ENTIPET TO BAIL YA SACK SAND ON PLUC, PIGE RSD 000 WILL KTILL STATUDE, SIGNUE, SIGNUE ATTENDET TO SOME TESTED OK, PERF WELL NUL KTILL STATUDE, SET CIDP AT 6308 FT, LOAD CSC 58,125 ANDO TEST PLUC, TO SOCH TESTED OK, PERF WELL ATTENDET PLUC, TO SOCH TESTED OK, PERF WELL AS DEAR PROCEDURE, COTO FT THAU COTT, FT, TOTAL OF HOD SHOTS AT 1 SPF, TRDE Y PERFER, RUN STANDING VALUE JITS BLOW WELL DOWN, SET PPT PREKER, RUN STANDING VALUE JITS BLOW WELL DOWN, ATTENDET TO TEST TUBJICK + PACKER NOT HAD FAILED, PICK VD DIEW PREKER, AND TOH, PAKER JITU HAD FAILED, PICK VD DIEW PREKER, AND TOH, PAKER SLIPI HAD FAILED, PICK VD DIEW PREKER TO SWAR BACK ACID JOB FOR NEW PERFS. 98L ACID PERF. JITU HADE, SIONU STATINDE, FUND DARK SIDE, ALL OK, PUMP PPT GEST JITU HADE, SIDNU DUE DARK SIDE, ALL OK, PUMP PPT GEST JITU HADE, SIDNU PERFS. JITU HADE, SIDNU PERFS. JITU HADE, SIDNU PERFS. JITU HADE, SIDNU PERFS.		TEST BOD + WELL HEAD TOTO OUT OF HOLE WITH TUBING.	
215.83 POLL VALL STAILOG, SET RAP W/ WIRKLING AT GOOD FILLO, PLUG 215.83 POLL VALL STAILOG, SET RAP DON PLUG, PLUG, PLUG 14AD UDSCRATED AND FELL DOWN HOLE RIG. DOWN 115.81 PULL KILL STAILUG, SION 215.83 PULL KILL STAILUG, SION 215.84 PULL KILL STAILUG, SION 215.85 PULL KILL STAILUG, SET CIAP AT STOD OK, PERFUEL 215.87 PULL KILL STAILUG, SET CIAP AT STOD OK, PERFUEL 216.87 PULL KILL STAILUG, SET CIAP AT STOD OK, PERFUEL 217.87 PULL KILL STAILUG, SET CIAP AT STOD OK, PERFUEL 217.87 PULL KILL STAILUG, SET CIAP AT STOD OK, PERFUEL 217.89 PULL KILL STAILUG, SET PAT PREKER, RUND STANDING, UAUE 217.89 PERFUEL DOLL, SET PAT PREKER, RUND STANDING, UAUE 217.89 BLOW WELL DOLAU, SET PAT PREKER, RUND STANDING, UAUE 217.89 BLOW WELL DOLAU, SET PAT PREKER, RUND STANDING, UAUE 217.89 BLOW WELL DOLAU, AND BALKSIDE ALL OK. PUMP PPT 218.80 NUM PREME 217.81 PALES TOR UEW PREKER, AND OH PREFER 217.81 PALES TOR UEW PREKER, AND OH PARE 217.81 PALE AND BALK DE MALKSIDE ALL OK. PUMP PPT 218.81 PALE AND BALK DE MARKSIDE ALL OK. SET PRA			
3100 TOT BATL M. SACK SETUD ON PLUC, PLUC, 14AD UDSERTED AND FELL DOWN HOLE RIG DOWN 14AD UDSERTED AND FOUN TOBING, TO REFRIEVE RID. 210 KILL STRING, SET CIDP AT 6308 FT, LOAD CSC. 3100 PULL KILL STRING, SET CIDP AT 6308 FT, LOAD CSC. 3100 TEST PLUC, TO SOCAL TESTED OK, PERF. WELL. AND TEST PLUC, TO SOCAL TESTED OK, PERF. WELL. AND TEST PLUC, TO SOCAL TESTED OK, PERF. WELL. AND TEST PLUC, TO SOCAL TESTED OK, PERF. WELL. AND TEST PLUCE, SET PIT PREKER, RUN STANDING, UAUE CILTO. OD UNRULADE, ATTEMPT TO TEST TUBJIC, PERK. COUD COL UNRULADE, ATTEMPT TO TEST TUBJIC, PERK. COUD OD UNRULADE, ATTEMPT TO TEST TUBJIC, PERKER, COUD SLIPS HAD FAILED PICK OF DEW PREKER, AND TOH, PREKER JUT HOLE, STON TO HOLE, MOLD, AND BACKSDE U/ 79% KCL, SET PKR ACID TOB, FOR NEW PERF, LIND DART, PREMARE TO SURAB BACK ACID, SOB, CORD, SUMP, STARTING, FRAITING, FUND LEVEL AT LOAD, COTS, SOBS UND SUMP, STARTING, TUD LEVEL AT LOAD, COTS, SOBS UND BACK, STARTING, THE AND RUN. ACID, SOB, LOAD, NOW BACKADE U/ 79% KCL, SET PKR ACID, SOL, PANC, STARTING, FUND LEVEL AT LOAD, COTS, SOB, UND LEVEL DOWN, FUND LEVEL AT SIG SOT, SOL, SOL, SUPLLAD, LUID LEVEL AT			
HILENDE AND FELT DOUL HOLE RIG. DOUNU HARD UTSRELINGE AND RUD TOBING. TO ARTALEUE ARD BUL KILL STRING, SET CIBP AT SJOB FL LOAD CSC SELIS: AND TESTED AND TESTED CAT SJOB FL CAT SJOB FL CAT CAT CAT SJOB FL CAT CAT CAT CAT CAT CAT FL CAT CAT <td>3.15.89</td> <td>PUCC NECE SITISTICS, Set TIP</td> <td>2272</td>	3.15.89	PUCC NECE SITISTICS, Set TIP	2272
Image: Another and the transformed		ATTEMPT TO BHILE A CONTRACT	
Ref Ref STOD 316.87 PULL KTILL STRING, SET CIBP AT 4308 FT, LOAD CSG 58,185 NUD TEST PULG TO SCOM, TESTED OK, PERF WELL AD DER PROCEDURE, GOTO FT, THEU GYPT FT, TOTAL OF NUD TEST PULG, AT SPF, MADE '7 PERF WELL PERF MOLE ONE, GOTO FT, THEU GYPT FT, TOTAL OF 'NO SHOTS AT ISPF, MADE '7 PERF WILLS, PICK UP 'PT (PACKER, AND) TRIP TO TATE STODUCT, OLIVE, STONDAG, UALUE 'UD SHOTS, AT ISPF, MADE '7 PERKER, RURU STANDAG, UALUE 'UD WELL DOLAD, SET 'PT PACKER, RURU STANDAG, UALUE 'UD WELL DOLAD, SET 'PT PACKER, RURU STANDAG, UALUE 'UD HOLE, STORU 'UD HOLE, STORU 'UD HOLE, STORU 'IN HAD FRILED, PICK UP (DEW PACKER + HYDRO TEST 'IN HAD FRILED, PICK UP (DEW PACKER + HYDRO TEST 'IN HOL TO TO THE TO STORE TO SUPAR STORE 'STODUC TUBIOUS AND BACK SIDE, ALL OK, PUNP PPT GR ST PKR 'IN HOLE, STORU 'IN HOLE		HAD OTOSEHTED HILD TECHNOLOGIA	
376.87 DULL KTILL STRITUG, SET CIBP AT SJOB AT, LOAD CSC. 381.83 AND TEST DUUS, TO SOON TESTED OK, PERF WELL AS PERT PROCEDORE, SOTR PT THRU GOPT PT. TOTAL OF AS DERT PROCEDRE, SOTR PT THRU GOPT PT. TOTAL OF AS DERT PROCEDRE, SOTR PT THRU GOPT PT. TOTAL OF AS DERT PROCEDRE, SOTR PT. THRU GOPT PT. TOTAL OF AS DERT PROCEDRE, SOTR PT. THRU GOPT PT. TOTAL OF AS DERT PROCEDRE, SOTR PT. THRU GOPT PT. TOTAL OF AS DERT PROCEDRE, SOTR PT. THRU GOPT PT. PROCEDRE AS DERT PROCEDRE, SOTR PT. TO TEIT TUBALO, PARKER AS DERT MALE, ATTEMPT TO TEIT TUBALO, PARKER AS DERT MALE, ATTEMPT TO TEIT TUBALO, PARKER AS DERT MALE, ATTEMPT TO TEIT TUBALO, PARKER AS DERT MALE, STORU AS DERT MALE, PICK UP DIEW PARKER, ALL OK, PUMP PPT STATUS, HAD FALLED, PICK UP DERT, ALL OK, PUMP PPT AS DERT TALKER, TUBJUL, AND BACKSJDE, ALL OK, PUMP PPT AS DERT TALKER, TUBJUL, AND BACKSJDE, ALL OK, PUMP PPT AS DERT TALKER, TUBJUL, AND BACKSJDE, ALL OK, PUMP PPT AS DERT TALKER, TUBJUL, AND BACKSJDE, ALL OK, PUMP PPT AS DERT TALKER, TUBJUL, AND BACKSJDE, ALL OK, PUMP PPT AS DERT TALKER, TUBJUL, AND BACKSJDE, ALL OK, PUMP PPT AS DERT TALKER, TUBJUL, AND BACKSJDE, ALL OK, PUMP PPT AS DEST PARKER, TUBJUL, AND BACKSJDE, ALL OK, PUMP PPT			
316 SP POLL KILL SIMULON, SET SOCK, TESTED OF, PERF WELL AS DER PROCEDURE, GOTO PT, THAU GOTO PT, TOTAL OF IND SHOTS AT 15P, MADE TO PERF RUTUS, PICK UP IND SHOTS AT 15P, MADE TO PERF RUTUS, PICK UP IND SHOTS AT 15P, MADE TO PERF RUTUS, PICK UP IND SHOTS AT 15P, MADE TO TEST TUBJUC, UALUE GI, ITO ONU WELL DOWN, SET PPT PACKER, RUTU STANDING, UALUE GI, ITO ONU WELL DOWN, SET PPT PACKER, RUTU STANDING, UALUE GI, ITO ONU WELL DOWN, SET PPT PACKER, RUTU STANDING, UALUE GI, ITO ONU WELL DOWN, SET PPT PACKER, RUTU STANDING, UALUE GI, ITO ONU WELL DOWN, SET PTT TO TEST TUBJUC, PACKER, COUD NOT HOLD, ANUY PST, UNDERT DACKER AND TOM, PACKER START JID HOLE, STOTU TO HAD FOR PACKER, TUBJUC, AND DACK SIDE, ALL OK, PUMP PPT, GB, START ALCO TOR FAILED, PACK AND DACK SIDE W/ 196 KCL, SET PKR ALCO TOR FOR WELL PACK AND SHART OF KERRE TO SURAR CAR AT GON FILT FISH FULID DART, PREPARE TO SURA BACK AT GON FILT FISH FULID DART, PREPARE TO SURAB, CAN ALCO TOC, SURABLED SN, WARD, ETTOR FILT TO SUL, HAD ALCOLER FILT START AT GON FILT FULL DOWN, PAEPARE TO SWAB, CAN STARTING SUPPLEMENT AMT. COST ESTIMATE DOTO FILT SUL SCOTTON STARTING, FULL DOWN ATTO SUP, STOTAL FULL CAR, MA			
HOUS TERT FORCE DURE: GOTO PY THAT COST FT. TOTAL OF HYO SHOTS AT ISPF. TRADE '7 PERF RUIUS PICK UP PPT PRCKER AND TRIP TO TELL YOLL. STONDAY, UAUE SITS BLOW WELL DOLAU. SET PPT PRCKER, RUIU STANDAY, UAUE DUT WOLD ANDY RST. UNUERT TO TELT TUBJIC, PRCKER. COULD DUT HOLD ANDY RST. UNUERT DACKER AND TOH, PRCKER. COULD DUT HOLD ANDY RST. UNUERT DACKER AND TOH, PRCKER. COULD DUT HOLD STORE SIP. HAD FAILED. PICK UP NEW PACKER & HYDRO TELT JUU HOLE. STORU SIP. HAD FAILED. PICK UP DEM PACKER AND TOH, PRCKER. SIP. HAD FAILED. PICK UP DEM PACKER AND TOH, PRCKER. JUD THOLE. STORU JUD HOLE. STORU SIP. HAD FAILED. PICK UP DEM FT. J 894. ACLD PER PERF. ACD TOB FOR INEW PERFS. J 894. ACLD PER PERF. ACD TOB FOR INEW PERFS. J 894. ACLD PER PERF. ACD SUPPLOE ACD TO STORE OF SUPPLY JIP. TOO * DEM SUP STARTING. FUND LEVEL AT TOOM HILL ACD STORED SUP SUPPLEMENT AMT. STARTING FT. DOW. BOLW WELL DOWN. PREPARE TO SWAB. STARTING FT. DOW. BOLW WELL DOWN. PREPARE TO SWAB. STARTING FT. DOW. BOLW WELL DOWN. AFTER EACH SUPPLY AND MARK. STARTING FT. DOW. BOLW WELL DOWN AFTER EACH SUPPLY AND ARCHAR. STARTING FT. DOW. BOLW WELL DOWN AFTER EACH SUPPLY AND ARCHAR. <td>3-16-89</td> <td>FOLL RECE STRATED OF DEAL WELL</td> <td>20,102</td>	3-16-89	FOLL RECE STRATED OF DEAL WELL	20,102
143 PERF PROCESSOR SPF. TRADE 7 PERF RUTUS, PTCK UP 140 SHOT AT I SPF. TRADE 7 PERF RUTUS, PTCK UP 157 BLOW WELL DOWN, SET PPI PACKER, RUTUS STANDING, UALWE GLITO, 150 AUMARATINE, ATTEMPT TO TEIT TUBJAC, PACKER, COULD 150 AUMARATINE, ATTEMPT TO TEIT TUBJAC, PACKER, COULD 151 HAD PACKER, TUBJUL, AND PACKER, AND TOH, PACKER 151 HAD PALED, PICK UP DEW PACKER, HUTDRE, PACKER 151 HAD FAILED, PICK UP DEW PACKER, HUTDRE, PACKER 151 HAD FAILED, PICK UP DEW PACKER, HUTDRE, PACKER, COULD 151 HAD FAILED, PICK UP DEW PACKER, HUTDRE, PACKER, COULD 151 HAD FAILED, PACKER, TUBJUC, FULD CEUEL AT 150 STARTING, FULD SUBJUK, FULD CEUEL AT 150 STARTING, FULD LEUEL SCATTERED 4200 FT TO SUL, HAD 151 STARTING, FULD LEUEL SCATTERED 4200 FT TO SUL, HAD 150 LET WELL, BOW DOWN AFTER EACH SWAB, CUUL 151 STARTING, FULD LEUEL SCATTERED 4200 FT TO SUL, HAD 150 LET WELL, BOW DOWN AFTER EACH SWAB, CUUL 151 BAD WEATHER STOTAL, FULD LEUEL 150 LET WELL, BOW DOWN AFTER EACH SWAB, CUUL STOTAL, FULD LEUEL <		HIDD TEST FLOG IS STORE TO THE OF	
DPT PRCKER AND TRIP TN HOLE. STOD SIT ST BLOW WELL DOWN, SET PPT PACKER, RUN STANDING, UAUE GI, TO QU WISKLING, ATTEMPT TO TUBJUC, HOND PACKER, RUN STANDING, UAUE GI, TO QU WISKLING, ATTEMPT TO TUBJUC, PACKER, RUND PACKER, RUND PACKER COUD JUD HOLE, STON MUC PACKER, TUBJUC, AND BACKSIDE ALL OK. PUMP PPT GS, STO SIRUE PACKER, TUBJUC, AND BACKSIDE MUC YAS KEL, SET PREAL ACID JOB FOR NEW PERFS. LOAD, CST, PAK PERFS. GS, STO ACID JOB FOR NEW PERFS. NO BACKSIDE WIGW TOWN FOR KARDE PACKER ACID JOB FOR NEW PERFS. NO BACKSIDE SET PERF ACID JOB FOR NEW PERFS. NO BACKSIDE NOW FOR KARDE NOW FOR KARDE ACID JOB STOR SINTHERNO TATER TO SUPARE TO SUPARE TO SUPARE SUPARE SUPARE ACOURT STON SUP SUDTH SUDTH CUID LEUEL AT YAOTH BACUERED S ROUW SUPLEMENT ANT. SUPARE SUPARE SUPARE STRETT TOCH, BUDD LEUE		15 PER PROCEDORE, SOLOTE PLOSE PURCE PICK LIP	
SIT-ST BLOW WELL DOWN, SET PPI PRKKER, RUNU STANDING, UAUE GL. TO SIT-ST BLOW WELL DOWN, SET PPI PRKKER, RUNU STANDING, UAUE GL.TO NOT HOLD DRUY PST, URUERT DACKER, AND TOH, PACKER SLIPS, HAD FAILED, PICK UP (DEW PACKER, AND TOH, PACKER) SLIPS, HAD FAILED, PICK UP (DEW PACKER, AND TOH, PACKER) SLIPS, HAD FAILED, PICK UP (DEW PACKER, AND TOH, PACKER) SLIPS, HACKER, TUBBING, AND BACKSIDE, ALL OK, PUMP PPT GB, STATER, TUBBING, AND BACKSIDE W/ 296 KCL, SET PAR DISPLACE, TUBBING, AND BACKSIDE W/ 296 KCL, SET PAR ALGO TOB, FOR NEW (PERFS, I) BOL ACLO PERF. ALGO TOB, TOBING, AND BACKSIDE W/ 296 KCL, SET PAR DISPLACE, TUBBING, AND BACKSIDE W/ 296 KCL, SET PAR AT GOLL, SHARDON, SWAB, STARTSUC, FUND LEUEL AT LODD, CITS, PASS LOND, SWAB, STARTSUC, FUND LEUEL AT ALGO TOB, SUPAR, STOTUC, FUND LEUEL AT STOC, SWARDED, SWAB, STOTUC, FUND LEUEL AT STARTSUDU FLUID LEUEL SCATTERED, 4200 KT STARTSUDU FLUID LEUEL SCATTERED, 4200 KT STARTSUDU FLUID LEUEL SCATTERED, 4200 KT TO LET WELL BLOW DOWN AFTER EACH SWARD, AND STARTSUDU FLUID LEUEL SCATTERED, 4200 KT STARTSUDU FLUID LEUEL SCATTERED HOLD, FIURAL FLUID LEUEL SCHRTBED 4200 FT TO SUN, STON STON, SARD SUPLEMENT ANT		THE STOTS IT STOLL GTOOL	
31100 DOL WIRELING, ATTEMPT TO TEIT TUBJICK + PACKER, COUD DUT HOLD ANUP PST. UNUERT PACKER AND TOH, PACKER SLIPI HAD FAILED, PICK UP DIEW PACKER + HYDRO TEIT ITU HOLE, SIDOU 31101 31102 JIN HAD FAILED, PICK UP DIEW PACKER + HYDRO TEIT ITU HOLE, SIDOU 31102 31103 JIN HAD FAILED, PICK UP DEACK SIDE, ALL OK, PUMP PPT 63,590 ACLD JOB FOR NEW PERFS. 1 80L ACLD PER PERF. DISPLACE TUBJIUL, AND BACKSIDE W/ 296 KCL, SET PKR AT GOID, T. FISH FUID DARK PREPRE TO SWAB BACK AT COL, SURBED 310, AND BACKSIDE W/ 296 KCL AT COL, SURBED 310, HRS, ENDINUE FUID LEUEL AT 1.0AD, (TIS PBIS LORD), SWAB, STARTING, FUID LEUEL AT 3.100, SURBED 310, HRS, ENDINUE FUND LEUEL AT YEQUERED S BO YG BUU, SIDOU BARGENERD S BOUND WELL DOWN, PREPARE TO SWAB, 3.100, SIDRITING LEUEL SCATTERED Y200 FT TO SU, HAD SINRTING FLUCK FUND LEUEL SCATTERED Y200 FT TO SU, HAD SINRTING FUND LEUEL SCATTERED Y200 FT TO SU, HAD SINRTERED Y100 LEUEL SCATTERED Y200 FT TO SU, HAD SINRTERED Y100 LEUEL SCATTERED Y200 FT TO SU, HAD SINRTING FUND LEUEL BOWN DATER HANT. STRETING FUND LEUEL BOWN DATER HANT. STRETING FUND LEUEL			71 30
OR UNRELITIES, ATTEMPT TO TELT TOBJUCT PARAMEN. NUT HOLD DRUY PST. UNLEAT PACKEP AND TOL, PARKEP SLIPC HAD FAILED. PICK UP DIEW PACKEP + HYPRO TELT ITU HOLE, SION 3100 HOLE, SION 3110 HOLE, SION 3100, SUBB FOR VIEW PERFS. 3100, SUBB FOR VIEW PERFS. 3100, SUBB FOR VIEW PERFS. 3100, SUBB FOR VIEW DART, PREPARE TO SUBB BACK 3100, SUBBS LORD, SUBB, SION 3100, SUBBS LORD, PREPARE TO SUBB, SION 3100, SUBBS LORD, PREPARE TO SUBB, SION 3100, SUBBS LORD, PREPARE TO SUBB, SION 3100, SUBL SUBL, SUBB, SION 3100, SUBL SUBB, SUB, SU	3.17.89		
DOT HODY PSL. OLOGEN PICK UP PICK UP PICK UP PICK UP PICKER HYPRO TEST TU HOLE, SION TU HOLE, SION SIGN		ON WINECIDE, HITEINPI TO PACKED AND TOH DACKED	
SLEPS HAD THACED. FLEN OF JOINT INTERIOR IN HOLE, SION 3-16:89 TEST PRAKER TUBING, AND BACKSIDE, ALL OK. PUMP PPT 68,590 ACD JOB FOR NEW PERFS. 1 88L ACID PER PERF. DISPLACE TUBING, AND BACKSIDE W/ 2% KCL. SET PKR AT 6014 FT. FISH FUND DART, PREPARE TO SWAB BACK AT 6014 FT. FISH FUND DART, PREPARE TO SWAB BACK AT 6014 FT. FISH FUND DART, PREPARE TO SWAB, ATTON, FUND LEUEL AT I.ORD.(ITS 885 LORD), SWAB STARTING FUND LEUEL AT BIDO, STARTING, FUND ART, PREPARE TO SWAB, ATTON, FUND FUND STACTION, FUNDAY STATION, FUNDAY STARTING, FUNDAY ARE STARTING, FUNDAY STARTING, FUN		DUST WHIT DIDY VSL. UNDER FIGHCE	
3-16:00 TEST PACKER TUBINUL AND BACKSIDE, ALL OK. PUMP PPT 60.590 ACLD JOB FOR NEW PERFS. 1 88L ACLD PER PERF. DISPLACE TUBINUL, AND BACKSIDE W/ 3% KCL, SET PKR AT 6014 FT. FISH FUND DART, PREMARE TO SWAB BACK AT 6014 FT. FISH FUND DART, PREMARE TO SWAB BACK AT 6014 FT. FISH FUND DART, PREMARE TO SWAB BACK AT 6014 FT. FISH FUND DART, PREMARE TO SWAB BACK AT 6014 FT. FISH FUND DART, PREMARE TO SWAB STARTINUL FLUID LEUEL AT 3700, 3448880 3*3 HBS, ENDINUL FLUID LEUEL AT 4300 FT. RECOURRED S 80 45 8W, SION SIAFTINUL FLUID LEUEL SCATTERED 4200 FT. TO SWAB, STARTINUL FLUID LEUEL SCATTERED 4200 FT. TO SWAB, STARTINUL FLUID LEUEL SCATTERED 4200 FT. TO SWAB, TO LET WELL BLOW DOWN AFTER EACH SWAB AUTU. TO LET WELL BLOW DOWN AFTER EACH SWAB AUTU. SCATTERED 4300 FT. TO STU, STON STERT _ BO, _ BW, _ KCFPD SUPPLEMENT AMT. COST ESTIMATE _ 64.300 SUPPLEMENT AMT. COST ESTIMATE _ 64.300 SUPPLEMENT AMT. LAST JEST _ BO, _ BW, _ KCFPD SUPPLEMENT AMT. <		SCIPS AND THICED. FICK OF TOBIC THICK	
3-18:30 TEST_PROPERTY INCLUCY AND DRAY SLUE BBL ACID PER PERF. ACID JOB FOR USEW PERS 1 BBL ACID PER PERF. DISPLACE TUBINUC, PRUD BACK SLOE W/ 19% KCL, SET PKR AT 6014 FT. FISH FUND DRAY. PREMARE TO SLUAB BACK AT 6014 FT. FISH FUND DRAY. PREMARE TO SLUAB BACK AT 6014 FT. FISH FUND DRAY. PREMARE TO SLUAB BACK AT 6014 FT. FISH FUND DRAY. PREMARE TO SLUAB BACK AT 6014 FT. FISH FUND DRAY. PREMARE TO SLUAB BACK AT 6014 FT. FISH FUND DRAY. PREMARE TO SLUAB BACK AT 6014 FT. FISH FUND DRAY. PREMARE TO SLUAB BACK AT 6014 FT. FISH FUND DRAY. PREMARE TO SLUAB BACK AT 6014 FT. FISH FUND DRAY. PREMARE TO SLUAB BACK AT 6014 FT. FISH FUND DRAY. PREMARE TO SLUAB BACK STARTING FLUCK BOW WELL DOWN. PREMARE TO SLUAB BACK STARTING FLUCK FLUE SCATTERED 4200 FT TO SUNAB. STARTALLY FLUE TO LET WELL DOWN DWIN AFTER EACH SLOAD AUTON. PROPARE TO SUNAB AUTON. STARTALLY FLUE STARTALUG LEVEL LOUD TOO FT TO SUNABLE. STARTALUGA FUND. STARTALUGA FUND. STARTALUGA FUND. STARTALUGA FLUCK MELOND DOWN AFTER EACH SUMAGE AUTON. STARTERED 4300 FT TO SUNABLE. STARTALUGA F			70 65/
ACID JOB FOR NEW PERIS. 1. OBLACED FOR CENT. DISPLACE TUBLING, PAND BACKSJOE W/ 780 KCL, SET PKR AT GOV FT. FISH FUND DART, PREPARE TO SWAB BACK AT OD, CATS BRS LOND, SWAB STARTING, FUND LEVEL AT STOO, SWABBED 3% HAS, ENDING, FUND LEVEL AT YOOR RECOVERED S BO YS BUD, SIDEN STATUS, SUNDAY STATUS, FUNDAY STATUS, FUNDAY <td>3-18-89</td> <td>LEST PACKER, TUBLING HIDD BHCK STUC, THE DEC</td> <td>60,340</td>	3-18-89	LEST PACKER, TUBLING HIDD BHCK STUC, THE DEC	60,340
AT 6014 FT. FISH FWID DART, PREARE TO SUAR BARK LOAD. (715 PRIS LORD), SWAB, STARTING, FUID LEUEL AT 3TOO, SWABBED 3% HRS, ENDING FUND LEUEL AT 3A088 SIT, SUNDAY 3A088 SIT, TOO*, BLOW WELL DOWN, PREPARE TO SWAB, 3TOT SUNDAY 3A088 SIT, TOO*, BLOW WELL DOWN, PREPARE TO SWAB, SINRTING, FLUID LEUEL SCATTERED 4200 FT TO STU, HAD SINRTING, FLUID LEUEL SCATTERED 4200 FT TO STU, HAD TO LET WELL BLOW DOWN AFTER EACH SWAB RUN, RECOVERED 46 BDU DOWN AFTER EACH SWAB RUN, SCATTERED 4100 FT TO STU, SION AFE* 629 JOB DESCRIPTION ADD PAY AFE* 629 JOB DESCRIPTION ADD PAY AFE* 629 JOB DESCRIPTION ADD PAY FIELD SUPT. 64 300 SUPPLEMENT AMT.		ACID JOB FOR NEW PERFS. I BUL ACID PER FERT	
AIL GOLD TT. FISH TOUSD SWARD, STARTING, FUID LEUEL AT LOAD, (JTS PRIS, LOND), SWARD, STARTING, FUUD LEUEL AT 3TOO, SWARDED 3V2 HRS, ENDING FUUND LEUEL AT RECOVERED S RO 45 BW, STORY 3TOO, SWARDED V STATERED VON LEUEL SCATTERED 4200 FT TO SUL, HAD STARTING, FLUID LEUEL SCATTERED 4200 FT TO SUL, HAD STARTING, FLUID LEUEL SCATTERED 4200 FT TO SUL, HAD RECOVERED 410 BLOW DOWN AFTER EACH SWARD RUP. RECOVERED 410 BLOW DOWN AFTER EACH SWARD RUP. RECOVERED 410 BLOW DOWN AFTER EACH SWARD RUP. STATERED 4200 FT TO SUL, STORY STATERED 4200 FT TO SUL, STORY STATERED 4200 FT TO SUPLEMENT AMT. COST ESTIMATE 64 300 SUPPLEMENT AMT. AFE+ 629 JOB DESCRIPTION ADD PAY STERTED 400 FT TO SUPLEMENT AMT. COST ESTIMATE 649.00 BW, KCFPD EXPECTED PRODUCTION BO, BO, MR, NCFPD IAST TEST BO, BW, KCFPD EXPECTED PRODUC			
3TOD. SUPRERD 312 HRS. ETUDING FLUID LEVEL AT 4200 H. RECOVERED S BO 45 BW. SION 3:A:04 SIT - SUNDAY 3:A:04 SIT - SUNDAY 3:A:05 SITP TOO", BLOW WELL DOWN, PREPARE TO SWAB, SIARTING FLUID LEVEL SCATTERED 4200 FT TO SUNA, TO LET WELL BLOW DOWN AFTER EACH SWAB, RUN. TO LET WELL BLOW DOWN AFTER EACH SWAB, RUN. ID LET WELL BLOW DOWN AFTER EACH SWAB, RUN. SATTERED 416 DOL TO STU, SION SCATTERED 416 DOL TO STU, SION SCATTERED 416 DOL TO STU, SION AFE+ 629 JOB DESCRIPTION AFE+ 629 JOB DESCRIPTION ADD PAY COST ESTIMATE 69,300 SUPPLEMENT AMT. LAST JEST BO, BW,		AT GOID FIL FUR LOON SWAR STARTING FLUID LEVEL AT	
AELOUERED 5 90 45 BW. SION 3:19:94 51 - SUNDAY 3:20:81 511P 700*, BLOW WELL DOWN, PREPARE TO SWAB, SIRRIJUG FLUID LEVEL SCATTERED 4300 FT TO SIN, HAD TO LET WELL BLOW DOWN AFTER EACH SWAB RUN, TO LET WELL BLOW DOWN AFTER EACH SWAB RUN, BECOVERED 46 BBLS TOTAL FLUID. FIVAL FLUID LEVEL SCATTERED 4100 F1 TO STU, SION SCATTERED 4100 F1 TO STU, SION SCATTERED 4100 F1 TO STU, SION AFE+ 629 JOB DESCRIPTION ADD PAY COST EBTIMATE 69, 300 SUPPLEMENT AMT.		3700, SWABBED 312 HRS, ENDING FLUID LEVEL AT 4700H	
3-20-89 SITP 100 **. BLOW WELL DOWN. PREPARE TO SWAB. SIARTIDUC FLUID LEUEL SCATTERED 4200 F1 TO SIU, HAD TO LET WELL BLOW DOWN AFTER EACH SWAB RUN. RECOVERED 46 DOLS TOTAL FLUID. FINAL FLUID LEUEL SCATTERED 4300 F1 TO SIV. SION STATERED 4300 F1 TO SIV. SION AFE+ 639 JOB DESCRIPTION ADD PAY AFE+ 69.900 SUPPLEMENT AMT.			
3-20-89 SITP 700* BLOW WELL DOWD, PREPARE TO SWAB, SIARTIDUC FLUID LEUEL SCATTERED 4200 F1 TO STU, HAD TO LET WELL BLOW DOWN AFTER EACH SWAB RUFU. RECOVERED 46 DBLS TOTAL FLUID. FIVAL FLUID LEUEL SCATTERED 4200 F1 TO STU, STON SCATTERED 4300 F1 TO STU, STON AFE+ 639 JOB DESCRIPTION ADD PAY COST ESTIMATE 69.300 SUPPLEMENT AMT.	5.0.00	ST - SUNDAU	
3-20-51 SIP 100, FUUD LEVEL SATTERED 4200 FT TO STU, HAD TO LET WELL BLOW DOWN AFTER EACH SWAG RUN. TO LET WELL BLOW DOWN AFTER EACH SWAG RUN. RECOVERED 46 BBLS TOTAL FUUD. FUNDL FUUD LEVEL SCATTERED 4700 FT TO STU, SION 3-71-89 SI - BAD WEATHER COST ESTIMATE 64,300 SUPPLEMENT AMT. AFE# BDT LEASE NC PENDOUCTION BO, SUPPLEMENTS FIELD SUPT. G. PACE PRODUCTION*ENGR. M. ROFFALL ANY CHANGES IN TUBING STRING? NO (SAME LENGTH: NO REPLACEMENTS)			+
STARTIDG FLUID LEDEL SCHTTENED THEN THE SUPPLY TO LET WELL BLOW DOWN AFTER EACH SWAB RUN. TO LET WELL BLOW DOWN AFTER EACH SWAB RUN. RECOVERED 416 BBLS TOTAL FLUID. FITUAL FLUID LEDEL SCATTERED 4300 F1 TO STU. STON SCATTERED 4300 F1 TO STU. STON 331.89 SI - BAD WEATHER AFE* 629 JOB DESCRIPTION ADD PAY COST ESTIMATE 69.300 SUPPLEMENT AMT.	3-20.89		
RECOURRED 46 BBLS TOTAL FOULD. FINTLE FOR SUPPLEMENT ANT. SCATTERED 4300 F1 TO GRU, STON 331.89 SI - BAD WEATHER AFE* 629 JOB DESCRIPTION ADD PAY cost estimate 69,300 supplement ant.		STARTINUL FLUID LEVEL SCHTTERED HAUT SWAB RUN.	
SLATTERED 4700 F1 TO SIU, SLOTU 331.89 SI - BAD WEATHER AFE+ 629 JOB DESCRIPTION ADD COST ESTIMATE 69 300 SUPPLEMENT AMT. COST ESTIMATE 69 300 SUPPLEMENT AMT. LAST JEST BO, BW, kCFPD EXPECTED PRODUCTION BO, BW, kCFPD LAST JEST BO, BW, kCFPD EXPECTED PRODUCTION BO, BW, kCFPD LAST JEST BO, BW, kCFPD EXPECTED PRODUCTION BO, BW, kCFPD LAST JEST BO, BW, kCFPD EXPECTED PRODUCTION BO, BW, kCFPD LAST JEST LEASE NG PRODUCTION'ENGR. M. NCFPD FIELD SUPT. G. PACE PRODUCTION'ENGR. M. NOFFALL ANY CHANGES IN TUBING STRING? NO (SAME LENGTH: NO REPLACEMENTS) YES YES YES IF "YES", FILL OUT THE FOLLOWING. YES YES YES YES JOINTS OF 'TRANSFERRED TO THE WELL (CONDITION_)<		TO LET WELL PLOW NOUND HITCH CHALFLUID LEVEL	
3:11:89 SI - BAD WEATHER AFE*		RECOURCED 418 DDD STORE STON	· · · ·
AFE*			+
AFE*	3.21.89	SI - BAD WEATHER	+
AFE*		Ann Anti	
COST ESTIMATE 69 300 SUPPLEMENT AMT	AEEA.	629 JOB DESCRIPTION ADD PAY	
LAST TEST BO, BW, KCFPD EXPECTED PRODUCTION BO, BW, KCFPD FIELD FIELD SUPT LEASE NG PRODUCTION'ENGR ROFFALL FIELD SUPT G, PACE PRODUCTION'ENGR ROFFALL ANY CHANGES IN TUBING STRING? NO (SAME LENGTH: NO REPLACEMENTS) YES IF 'YES', FILL OUT THE FOLLOWING. JOINTS OF 'ORIGINALLY IN THE HOLE JOINTS OF 'TRANSFERRED TO THE WELL (CONDITION) JOINTS OF 'TRANSFERRED FROM THE WELL (CONDITION) JOINTS OF 'RUN IN THE HOLE AT THE END OF WORKOVER	COST EST	IMATE 69 300 SUPPLEMENT AMT.	-
FIELD <u>BPT</u> <u>LEASE</u> <u>ING</u> <u>PETURUSE</u> <u>wells</u> FIELD SUPT. <u>G</u> , <u>PACE</u> <u>production'engr. M</u> , <u>ROFFALL</u> ANY CHANGES IN TUBING STRING? <u>NO</u> (SAME LENGTH: NO REPLACEMENTS) <u>YES</u> IF 'YES', FILL OUT THE FOLLOWING. <u>JOINTS OF</u> ORIGINALLY IN THE HOLE JOINTS OF <u>TRANSFERRED</u> TO THE WELL (CONDITION_) JOINTS OF <u>TRANSFERRED</u> FROM THE WELL (CONDITION_) JOINTS OF <u>TRANSFERRED</u> FROM THE WELL (CONDITION_)		EXPECTED PRODUCTION BO, BW,	_KCFPD
FIELD SUPT. <u>G</u> , <u>PACE</u> PRODUCTION'ENGR. <u>III</u> , <u>ROTFACE</u> ANY CHANGES IN TUBING STRING? <u>NO</u> (SAME LENGTH: NO REPLACEMENTS) YES IF "YES", FILL OUT THE FOLLOWING. JOINTS OF <u>CONSTRUCT</u> ORIGINALLY IN THE HOLE JOINTS OF <u>CONSTRUCT</u> 'TRANSFERRED TO THE WELL (CONDITION _) JOINTS OF <u>CONSTRUCT</u> 'RUN IN THE HOLE AT THE END OF WORKOVER	LAST TES	BOT NG PENBOSE WELLS	
FIELD SUPT O, PITCE PRODUCTION ENGR ANY CHANGES IN TUBING STRING? NO (SAME LENGTH: NO REPLACEMENTS) YES IF "YES", FILL OUT THE FOLLOWING. JOINTS OF "ORIGINALLY IN THE HOLE JOINTS OF "TRANSFERRED TO THE WELL (CONDITION) JOINTS OF "TRANSFERRED FROM THE WELL (CONDITION) JOINTS OF "RUN IN THE HOLE AT THE END OF WORKOVER	FIELD	DOCT M. ROFFALL	
YES IF "YES", FILL OUT THE FOLLOWING. JOINTS OF "ORIGINALLY IN THE HOLE JOINTS OF "TRANSFERRED TO THE WELL (CONDITION) JOINTS OF "TRANSFERRED FROM THE WELL (CONDITION) = JOINTS OF "RUN IN THE HOLE AT THE END OF WORKOVER	FIELD SUI	PT PRODUCTION ENGN.	
IF "YES", FILL OUT THE FOLLOWING. JOINTS OF "ORIGINALLY IN THE HOLE JOINTS OF "TRANSFERRED TO THE WELL (CONDITION) JOINTS OF "TRANSFERRED FROM THE WELL (CONDITION) JOINTS OF "RUN IN THE HOLE AT THE END OF WORKOVER	ANY CHA		
JOINTS OF "ORIGINALLY IN THE HOLE JOINTS OF "TRANSFERRED TO THE WELL (CONDITION) JOINTS OF "TRANSFERRED FROM THE WELL (CONDITION) = JOINTS OF "RUN IN THE HOLE AT THE END OF WORKOVER			
JOINTS OF "TRANSFERRED TO THE WELL (CONDITION) JOINTS OF"TRANSFERRED FROM THE WELL (CONDITION) JOINTS OF"RUN IN THE HOLE AT THE END OF WORKOVER	JC	DINTS OF ORIGINALLY IN THE HOLE	
JOINTS OF TRUN IN THE HOLE AT THE END OF WORKOVER			
	·	DINTS OF TRANSFERRED FROM THE WELL (CONDITION)	
	: JC	DINTS OF TRUN IN THE HOLE AT THE END OF WORKOVER	
	HAVE TH		

SOUTHWESTERN L JISION OPERATIONS REPORT



EXXON CO., U.S.A.

	DAC	· · · · · · · · · · · · · · · · · · ·
DATE	JOB DESCRIPTION	CUM. COST
J-78-89	LARGENT DED DED THE COLLETEN OF TOTAL DEST	45,550
	AND TRIP IN HOLE, BP, SLOTTED MA, SN. 40 JTS 278.	
	TA, 191 JOINTS J'B. SET ANCHOR, ND BOP AND FLANGE UP WELLHEAD, PICK UP 14 PUMP AND STAAT AUNNING	•
	RODS. SION BP AT 7544 FT, SN AT 7513 FT, TA AT 6211 FT	
	BP AT 1944 11/ SIG HT 7019 (1) 11/ 11 001 11	
3-1-89	FINISH RUNNING RODS, 53-1 INCH, 75 - 78 INCH, 161 - 74 INCH	48,250
	10 - 1 INCH FALL RODS, LOAD + TEST - OK, SPACE OUT AND	
	HANDE OFF, FEINE CELE FOR	48,750
<u> २२:क्ष</u>	19 HR POILTP TEST OF PE	
33.89	24 HR PUMP TEST 62 BO 12 BW	48,750
3-4-89	24 HR PUMP TEST 66 BO 5 BW	48,75
३५४म	24 HR PUMP TEST 31 BO 6 BW	
	RO BUI	
3-6-34	24 AR POINT ICON WE	
3-7-84	NO TEST - TEST TANKS FULL	
3-8-89	NO FLUID TEST TEST TANK FULL GAS RATE 175 KCF.	
3-9-89	24 HR HUMP TEST 47 BO 8 BW 169 KCF	48, 250
	24 HR PUMP TEST 44 BO 8 BW 166 KCF	48, 750
	24 HE RUMP TEST 45 BO 6 BW 167 KTE	48.251
	in a Rul Hale KCE	48.750
3-12-87	24 He Pump TEST 45 150 G No	
	COL 3/12/89	
	FRU	
L	629 JOB DESCRIPTION ADD PAY	
AFE	49 300 CUBRI EMENT AMT.	
	T BO BW KCFPD EXPECTED PRODUCTION BO BU.	KCFPD
FIELD	BDT LEASE NG PENHOSE WELL	
FIELD SU	PT. G PACE PRODUCTION'ENGR. M ROFFAL	
	NGES IN TUBING STRING? NO (SAME LENGTH: NO REPLACEMENTS)	
	FILL OUT THE FOLLOWING.	
اله <u>م</u> م	DINTS OF ORIGINALLY IN THE HOLE	
	DINTS OF TRANSFERRED TO THE WELL (CONDITION)	
	DINTS OF TRANSFERRED FROM THE WELL (CONDITION)	
ال ه	DINTS OF THE RUN IN THE HOLE AT THE END OF WORKOVER	

X

SOUTHWESTERN DIVISION OPERATIONS REPORT

EXXON CO., U.S.A.

w.w.o.	010	
DATE	DAC JOB DESCRIPTION	CUM, COS
	RODS HILL WILL DUNCHAT DUMD + TOH WITH RODS.	
J-21-89	MIRC DIANGOD W30, WUJCHI POINT	1200
<u></u>	INSTALL BOP, SION	
		- 11660
220-34	TEST BOP + WELLHEAD, UNSEAT ANCHOR HOT OIL TUBIN	- 432C
×	TO CLEAN OUT DARAFTO PULL OUT OF HOLE WITH	
	TURING TRUSTALL WLAFLINE BOP PIG OP BELC	·
	LIDENTINE TRID IN WITH PERF GOID TO SHOOT	
	DEOFS MADE S AUNS, NO PROBLEMS, ROID IN	
	HOLE WITH KILL STAINU, SION	
		11,250
2.23.89	FINISH PERFORATE GRANITE WASH, ABO + DAINHARD FORMATIONS.	
	6314 FT THRU THIS FT, I SPF IDIAL OF TAK SHOTS, INF STORE	
	BICK UP PPI PRA W/ 10 FT SPACING, TRIP IN HOLE STON	
2-24 84	HELD SEMIN SAFETY MTG. BUH AND SET PACKER AT 1250.	<u> </u>
	THUNDER FOR THE OK. TESTED THUNDER THE	<u> </u>
	THE TO THE AND STULLE AS A STULLE	
	ACROSS THE LERES. 30 31 MIN. TREATED MENTS PART	1
	AAL 167 NE FE HEL FEELAND	1
	FILLED FLUID CONTROL VALUE, FLUGHED THE HAD	
	ANNULUS WITH 210 KCL, SIDN.	
2.25.99	HELD SIMIN SAFETY MTG. BAN PKA CACK INTE PEARS	I
	AFLES CTORES ASIA	
	AND AND EVANED ONES VALVE AND PUBLIC LEE	
	FLUSH ANDIAL ANDILLUS, SET PACKER AND PUMP VO AND	
	FLUSH DOWN TUDIOLS SIDN.	
	MAX TARATING P32 - 3000	
	ANG RATE - 3 BPM	+
	AV6 152 - 2250 THTOL LOOP TO ALVA - 799 DA	35,15
1	JUTAL LORD IN CALC	<u></u>
		+
2-24-94		
	THE WELL WE AND IT FLOWED FOR 2 HOURS	
2-24-99 2-27-89	1250 & SITP OPENED WELL UP AND IT FLOWED FOR 2 HOURS	
	1250 # SITP OPENED WELL UP AND IT FLOWED FOR 2 HOURS	
	1250 # SITP OPENED WELL UP AND IT FLOWED FOR 2 HOURS	
	1250 # SITP OPENED WELL UP AND IT FLOWED FOR 2 HOURS MADE & SWAA AUNIS AND FOUND FLUID SCATTERED FADD SN TO SURFACE (WELL VERY GASSY AND TRYING TO FLOW). RECUD TOTAL OF 60 AD 39 AND (760 ALWITA) SIGN	
	1250 # SITP OPENED WELL UP AND IT FLOWED FOR 2 HOURS	
	1250 # SITP OPENED WELL UP AND IT FLOWED FOR 2 HOURS MADE & SWAA AUNIS AND FOUND FLUID SCATTERED FADD SN TO SURFACE (WELL VERY GASSY AND TRYING TO FLOW). RECUD TOTAL OF 60 AD 39 AND (760 ALWITA) SIGN	
	1250 # SITP OPENED WELL UP AND IT FLOWED FOR 2 HOURS MADE & SWAA AUNIS AND FOUND FLUID SCATTERED FADD SN TO SURFACE (WELL VERY GASSY AND TRYING TO FLOW). RECUD TOTAL OF 60 AD 39 AND (760 ALWITA) SIGN	
	1250 & SITP. OPENED WELL UP AND IT FLOWED FOR 2 HOURS MADE & SWAR AURIS AND FOUND FLUID SCATTERED FADT SN TO JURFALE (WELL VERY GASSY AND TRYING TO FLOW). RECUD TOTAL OF &D AD 39 BIN (760 ALWITR) SIGN PREPARING TO PWDP THESDAY. ALL R. (39,35
	1250 & SITP. OPENED WELL UP AND IT FLOWED FOR 2 HOURS MADE & SWAR AURIS AND FOUND FLUID SCATTERED FADT SN TO JURFALE (WELL VERY GASSY AND TRYING TO FLOW). RECNO TOTAL OF 60 AD 39 BW (TED ALWITH) SIGN PREPARING TO PWDP THESDAY. PREPARING TO PWDP THESDAY. 629 JOB DESCRIPTION Dad By	
	1250 & SITP. OPENED WELL UP AND IT FLOWED FOR 2 HOURS MADE & SWAR AURS AND FOUND FLUID SCATTERED FROM SN TO JURFALE (WELL VERY GASSY AND TRYING TO FLOW). RECUD TOTAL OF &D AD 39 BIN (760 ALWITR) SIGN PREPARING TO PWDP THESOAY. (229 JOB DESCRIPTION Dad By WATE 69300 SUPPLEMENT AMT.	39,35
2-27- 81	1250 & SITP. OPENED WELL UP AND IT FLOWED FOR 2 HOURS MADE & SWAR AURIS AND FOUND FLUID SCATTERED FADT. SN TO JURFALE (WELL VERY GASSY AND TRYING TO FLOW). RECUD TOTAL OF 60 AD 39 BW (.760 ALWTA) SIGN PREPARING TO PWDP THESDAY. (229 JOB DESCRIPTION AND THE GO SUPPLEMENT ANT. FIMATE 69300 SUPPLEMENT ANT.	39,35
2-27- 81	1250 & SITP. OPENED WELL UP AND IT FLOWED FOR 2 HOURS MADE & SWAR AURIS AND FOUND FLUID SCATTERED FADT. SN TO JURFALE (WELL VERY GASSY AND TRYING TO FLOW). RECUD TOTAL OF 60 AD 39 BW (.760 ALWTA) SIGN PREPARING TO PWDP THESDAY. (229 JOB DESCRIPTION AND THE GO SUPPLEMENT ANT. FIMATE 69300 SUPPLEMENT ANT.	39,35
2-27- 81	1250 & SITP. OPENED WELL UP AND IT FLOWED FOR 2 HOUSE MADE & SWAR AUALS AND FOUND FLUID SCATTERED FROM SN TO JURFALE (WELL VERY GASSY AND TRYING TO FLOW). RECUD TOTAL DE &D AD 39 BIN (760 ALWTR) SIGN PRÉPARING TO PWDP THESDAY. PRÉPARING TO PWDP THESDAY. (29 JOB DESCRIPTION DAD ANY FIMATE 69300 SUPPLEMENT AMT. TBO,BW,KCPPD EXPECTED PRODUCTIONBO,BW, BDTLEASE ND PLANCE WELLS	39,35
2-27- 51	1250 & SITP. OPENED WELL UP AND IT FLOWED FOR 2 HOURS MADE & SWAA AUANS AND FOUND FLUID SCATTERED FADM. SN TO JURFALE (WELL VERY GASSY AND TRYING TO FLOW). RECUD TOTAL OF &D AD 39 BW (THE ALWITH) SIGN PREPARING TO PWDP THESDAY. PREPARING TO PWDP THESDAY. (229 JOB DESCRIPTION AND ALWITH) SIGN FIMATE 69300 SUPPLEMENT AMT. TBO,BW,KCPPD EXPECTED PRODUCTIONBO,BW, BDTLEASE NA PLANCE WELLS	39,35
AFE+	1250 & SITP. OPENED WELL UP AND IT FLOWED FOR 2 HOURS MADE & SWAR AURIS AND FOUND FLUID ALATTERED FROM SN TO JURFALE (WELL VERY GASSY AND TRYING TO FLOW). RECUD TOTAL DE &D AD 39 BIN (760 ALWTR) SIGN PRÉPARING TO PWDP THESDAY. PRÉPARING TO PWDP THESDAY. FIMATE 69300 SUPPLEMENT AMT. TBO,BW,KCPPD EXPECTED PRODUCTIONBO,BW, BDTLEASE NA PLANCE WELLS <u></u> PRODUCTION'ENGR	39,35
AFE+	1250 & SITP. OPENED WELL UP AND IT FLOWED FOR 2 HOURS MADE & SWAR ALLANS AND FOUND FLUID SCATTERED FROM SN TO JURFALE (WELL VERY GASSY AND TRYING TO FLOW). RECUD TOTAL DE &D AD 39 BIN (760 ALWTR) SIGN PRÉPARING TO PWORP THESORY. PRÉPARING TO PWORP THESORY. FIMATE 69300 SUPPLEMENT AMT. T BO, BW, KCEPD EXPECTED PRODUCTION BO, BW, BDT LEASE NA PLANCE WELLS Y PT CPACE PRODUCTION * NO REPLACEMENTS)	39,35
AFE+	$\begin{array}{c} 1250 \text{ s} & \text{SITP} & \text{OPRNTD} WELL UP AND IT FLOWED FOR 2 HOURS made 6 SWAR AUALS AND FOUND FLUID SLATTERED FROM SN TO SURFACE (WELL VERY GASSY AND TRYING TO FLOW). SN TO SURFACE (WELL VERY GASSY AND TRYING TO FLOW). RECYO TOTAL OF 60 AD 39 BW (760 ALWITR) SIGN) PROPARING TO PWDP THESORY. \begin{array}{c} 629 \\ \hline \\ 69300 \\ \hline $	39,35
AFE+	1250 # SITP. OPENED WELL UP AND IT FLOWED FOR 2 HOURS MADE & SINGA AURIS AND FOUND FLUID SCATTERED FARM SN TO DURFALE (WELL VERY GASSY AND TRYING TO FLOW). BECUD TOTAL OF &D AD 39 AND (THO ALWITR) SIGN PREPARING TO PWDP THESDAY. PREPARING TO PWDP THESDAY. (029 JOB DESCRIPTION Dad Ray FIMATE 69300 SUPPLEMENT AMT. T BO, BW, KCFPD EXPECTED PRODUCTION BO, BW, BDT LEASE LEASE WELL & PT C. PRODUCTION SIGR PT C. PRODUCTION SIGR NGES IN TUBING STRING? NO (SAME LENGTH: NO REPLACEMENTS) YES FILL OUT THE FOLLOWING.	39,35
2-27- 81	1250 # SITP. OPENED WELL UP AND IT FLOWED FOR 2 HOURS MADE & SWAA AUDIS AND FOUND FLUID SCATTERED FADT SN TO JURFACE (WELL VERY GASSY AND TRYING TO FLOW). RECNO TOTAL DF &D BD 39 BIN (TEO ALWITH) SIGN PREPARING TO PLATP THESOAY. SIGN & SUPPLEMENT AMT. T	39,35
2-27- 81	$\begin{array}{c} 1250 \texttt{A} & \text{SITP.} & OPINIO WILL UP AND IT FLOWED FOR 2 HOURS \begin{array}{c} \text{MADE } & \text{SWAA AUDS AND FOUND FLUID SCATTERED FADD.} \\ \text{SN TO JUAFACE (WELL VEAY GASSY AND TAYING TO FLOW).} \\ \text{RECNO TOTAL DF & D BD 39 BID (TEO ALWIN) SIGN PREPARING TO PLATP THESOAY. \begin{array}{c} \text{FRATE } & G9 & 300 \\ \text{COMMERT ANT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{SUPPLEMENTER AMT.} \\ \text{SUPPLEMENT AMT.} \\$	39,35
2-27- 51	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	39,35
2-27- 51	$\begin{array}{c} 1250 \texttt{A} & \text{SITP.} & OPINIO WILL UP AND IT FLOWED FOR 2 HOURS \begin{array}{c} \text{MADE } & \text{SWAA AUDS AND FOUND FLUID SCATTERED FADD.} \\ \text{SN TO JUAFACE (WELL VEAY GASSY AND TAYING TO FLOW).} \\ \text{RECNO TOTAL DF & D BD 39 BID (TEO ALWIN) SIGN PREPARING TO PLATP THESOAY. \begin{array}{c} \text{FRATE } & G9 & 300 \\ \text{COMMERT ANT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{FIMATE } & G9 & 300 \\ \text{SUPPLEMENT AMT.} \\ \text{SUPPLEMENTER AMT.} \\ \text{SUPPLEMENT AMT.} \\$	39,35

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PENROSE #4 COMPLETION MORNING REPORT SUMMARY

2-21-89 Moved in and rigged up.

4

- 2-22-89 Tested BOP and wellhead. Hot oiled tubing to clean out paraffin. Pulled out of hole with tubing. Tripped in with perf guns to perforate Wantz Granite Wash and Drinkard.
- 2-23-89 Finished perforating Wantz Granite Wash and Drinkard.
- 2-24-89 Spotted acid across perfs with 1 bbl 15% NEFE HCl per perf. Flushed tubing and annulus with 2% KCl.
- 2-25-89 Finished acidizing perfs.
- 2-26-89 Shut down on Sunday.
- 2-27-89 Swabbed 60 BO, 39 BW. (Wantz Granite Wash and Drinkard)
- 2-28-89 Started putting well on pump.
- 3-01-89 Finished putting well on pump.
- 3-02-89 24 hour pump test. 80 BO 8 BW. (Wantz Granite Wash and Drinkard)
- 3-03-89 24 hour pump test. 62 BO 12 BW. (Wantz Granite Wash and Drinkard)
- 3-04-89 24 hour pump test. 66 BO 5 BW. (Wantz Granite Wash and Drinkard)
- 3-05-89 24 hour pump test. 31 BO 6 BW. (Wantz Granite Wash and Drinkard)
- 3-06-89 24 hour pump test. 28 BO O BW. (Wantz Granite Wash and Drinkard)
- 3-07-89 No Test Test tanks full.
- 3-08-89 No Test Test tanks full.
- 3-09-89 24 hour pump test. 47 BO 8 BW 169 MCF. (Wantz Granite Wash and Drinkard)
- 3-10-89 24 hour pump test. 44 BO 8 BW 166 MCF. (Wantz Granite Wash and Drinkard)
- 3-11-89 24 hour pump test. 45 BO 6 BW 167 MCF. (Wantz Granite Wash and Drinkard)
- 3-12-89 24 hour pump test. 45 BO 3 BW 166 MCF. (Wantz Granite Wash and Drinkard)
- 3-13-89 24 hour pump test. 45 BO 7 BW. (Wantz Granite Wash and Drinkard)

3-14-89 Moved in and rigged up. Tested BOP and wellhead. Tripped out of hole with tubing.

- 3-15-89 Set retrievable bridge plug with wireline above Drinkard and Wantz Granite Wash. Plug unseated and fell down hole. Rigged down wireline and ran tubing to retrieve retrievable bridge plug. Ran kill string.
- 3-16-89 Pulled kill string. Set cast-iron bridge plug above Drinkard and Wantz Granite Wash. Perforated Tubb Oil and Gas.
- 3-17-89 Set PPI packer. Did not hold pressure. Unseated PPI packer and took out of hole. Packer slips had failed. Picked up new PPI packer and tested OK in hole.
- 3-18-89 Pumped PPI acid job for Tubb Oil and Gas perforations. Flushed tubing and annulus with 2% KCl. Swabbed 5 BO, 45 BW. (Tubb Oil and Gas).
- 3-19-89 Shut down on Sunday.
- 3-20-89 Swabbed 4 BO, 42 BW. (Tubb Oil and Gas)
- 3-21-89 Shut down due to weather.
- 3-22-89 Tripped out with Tubing. Tripped in with bottom hole assembly and tubing.
- 3-23-89 Ran in hole with rods.
- 3-24-89 24 hour pump test. 35 BO 28 BW. (Tubb Oil and Gas)
- 3-25-89 24 hour pump test. 39 BO 25 BW 110 MCF. (Tubb Oil and Gas)
- 3-26-89 24 hour pump test. 40 BO 19 BW 125 MCF. (Tubb Oil and Gas)
- 3-27-89 24 hour pump test. 40 BO 13 BW. (Tubb Oil and Gas)
- 3-28-89 24 hour pump test. 39 BO 13 BW 72 MCF. (Tubb Oil and Gas)
- 3-29-89 24 hour pump test. 36 BO 2 BW 130 MCF. (Tubb Oil and Gas)
- 3-30-89 24 hour pump test. 39 BO 3 BW 132 MCF. (Tubb Oil and Gas)
- 3-31-89- Well taken off morning report. Daily production was not 4-10-89 recorded. Daily average was 31 BO 11 BW 110 MCF.
- 4-11-89 24 hour pump test. 35 BO 3 BW 132 MCF. (Tubb Oil and Gas)
- 4-12-89 24 hour pump test. 36 BO 3 BW 140 MCF. (Tubb Oil and Gas)
- 4-13-89 24 hour pump test. 30 BO 5 BW 140 MCF. (Tubb Oil and Gas)
- 4-14-89 20 hour pump test. 24 BO 2 BW 120 MCF. (Tubb Oil and Gas) Moved in and rigged up. Unseated pump and pulled rods. Installed and tested BOP. Pulled out of hole with tubing. Tripped in hole with drill bailer. Knocked cast-iron bridge plug to bottom.

- 4-15-89 Ran tubing. Flanged up wellhead. Ran pump and rods.
- 4-16-89 16 hour pump test. 28 BO 2 BW 119 MCF. (Wantz Granite Wash, Drinkard, and Tubb Oil and Gas)
- 4-17-89 24 hour pump test. 44 BO 48 BW 122 MCF. (Wantz Granite Wash, Drinkard, and Tubb Oil and Gas)
- 4-18-89 24 hour pump test. 41 BO 20 BW 147 MCF. (Wantz Granite Wash, Drinkard, and Tubb Oil and Gas)
- 4-19-89 24 hour pump test. 33 BO 17 BW 147 MCF. (Wantz Granite Wash, Drinkard, and Tubb Oil and Gas)
- 4-20-89 24 hour pump test. 25 BO 17 BW 155 MCF. (Wantz Granite Wash, Drinkard, and Tubb Oil and Gas)
- 4-21-89 24 hour pump test. 35 BO 6 BW 165 MCF. (Wantz Granite Wash, Drinkard, and Tubb Oil and Gas)
- 4-22-89 24 hour pump test. 30 BO 14 BW 175 MCF. (Wantz Granite Wash, Drinkard, and Tubb Oil and Gas)
- 4-23-89 24 hour pump test. 28 BO 10 BW 177 MCF. (Wantz Granite Wash, Drinkard, and Tubb Oil and Gas)
- 4-24-89 No Test Test tanks full.
- 4-25-89 24 hour pump test. 35 BO 17 BW 175 MCF. (Wantz Granite Wash, Drinkard, and Tubb Oil and Gas)
- 4-26-89 24 hour pump test. 30 BO 10 BW 165 MCF. (Wantz Granite Wash, Drinkard, and Tubb Oil and Gas)

Wtr BWPD	4.5 1.2 0.7 6.4	4.5 1.2 0.7 6.4	4.5 0.8 5.3	4.5 1.2 0.7 5.3	24.5 RP. & 9399 ocket
Wtr %	70 19 11 100	70 19 11 100	85 15 100	70 11 0	24. EXXON CORP. Exhibit No. 14 Case No. 9398 & 93 June 8, 1988 Docket
Gas <u>MCFPD</u>	84.9 68.3 54.8 208.0	84.9 68.3 54.8 208.0	84.9 13.9 8.3 107.1	84.9 68.3 54.8 85.0 293.0	816.1
Gas %	41 33 26 100	41 33 26 100	79 13 8 100	29 23 19 100	rea.
0 i l <u>BOPD</u>	4.6 3.5 0.8 8.9	4.6 3.5 0.8 8.9	4.6 7.6 3.2 <u>15.4</u>	4.6 3.5 0.8 14.0 22.9	56.1 letion, In Study Area. Dieing. d Gas Pool.
0i1 %	52 39 9 100	52 39 100	30 49 21 100	20 15 62 100	verage Production, Per Completio le Production. oduction Rate Prior To Well Diei Gas Completion In A Prorated Gas
Well & Zone	 Penrose #1 Blinebry Oil & Gas Drinkard Tubb Oil & Gas 	<pre>* Penrose #2 * Blinebry Oil & Gas * Drinkard * Tubb Oil & Gas *</pre>	Penrose #3 * Blinebry Oil & Gas ** Drinkard ** Wantz Granite Wash	Penrose #4 * Blinebry Oil & Gas * Drinkard * Tubb Oil & Gas * Wantz Granite Wash	<pre>Grand Total: * - From 1986 Average Production, Per Completion, ** - 1987 Average Production. min - Reported Production Rate Prior To Well Dieing min - Reported Production Rate Prior To Well Dieing ** - Designates Gas Completion In A Prorated Gas P</pre>

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PENROSE ALLOCATION FORMULAS

STATE OF NEW MEXICO ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CONSIDERING:

CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF

PENROSE # 1, 2, 24

CASE NO. 9398 Order No. R-8707

APPLICATION OF EXXON CORPORATION FOR DOWNHOLE COMMINGLING, SIMULTANEOUS DEDICATION AND AN UNORTHODOX GAS WELL LOCATION, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on June 8, 1988, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 4th day of August, 1988, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

Division Case Nos. 9398 and 9399 were consolidated (2) at the time of the hearing for the purpose of testimony.

(3) The applicant, Exxon Corporation, seeks approval to commingle production from the Drinkard, Tubb Oil and Gas, and Blinebry Oil and Gas Pools within the wellbore of its N. G. Penrose Wells Nos. 1 and 2 located, respectively, 660 feet from the North line and 1980 feet from the East line (Unit B) and 1980 feet from the North line and 660 feet from the East line (Unit H), of Section 13, Township 22 South, Range 37 East, NMPM, and to commingle production from the



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CASE NO. 9398 Order No. R-8707 Page -3-

(10) The applicant proposes to perforate and complete the Drinkard zone and selectively perforate and complete additional Blinebry oil pay within the wellbores of its N.G. Penrose Wells Nos. 1 and 2 and also proposes to perforate and complete the Blinebry, Tubb, and Drinkard zones within the wellbore of its N.G. Penrose Well No. 4.

(11) The applicant further proposes to perforate and complete the zones described in Finding No. (10) above without separately testing the productive capabilities of these zones.

(12) The applicant presented evidence and testimony which indicate that a requirement by the Division to separately test each newly completed zone in the subject wells prior to commingling would result in a substantially greater expense which would consequently make the proposed downhole commingling uneconomic.

(13) As an alternate method of allocating production to each zone within the subject wellbores, the applicant proposes to utilize ratios calculated from 1986 average production data obtained from wells producing from these zones and located in the area of the N.G. Penrose Lease.

(14) The evidence presented indicates that the Tubb zone, which will be produced from the N.G. Penrose Wells Nos. 1, 2, and 4, will be classified as gas zones and therefore subject to the General Rules for the Prorated Gas Pools of New Mexico as promulgated by Order No. R-8170, as amended.

(15) While the allocation method proposed by the applicant represents a reasonable method of allocating production to the non-prorated pools within the subject wells, a more accurate method of determining Tubb Oil and Gas Pool production is necessary in order to ensure the protection of correlative rights of the various operators in said pool. CASE NO. 9398 Order No. R-8707 Page -5-

Pools within the wellbore of its N. G. Penrose Well No. 4 located 350 feet from the North line and 660 feet from the East line (Unit A) of said Section 13, all in Lea County, New Mexico.

<u>PROVIDED HOWEVER THAT</u>, prior to commingling the production within the N.G. Penrose Well No. 4, the applicant shall separately test the Tubb zone until such time as the production rate has stabilized.

<u>PROVIDED FURTHER THAT</u>, the Director of the Division shall require the subject wells to be shut in should the subject gas proration unit become overproduced in the Tubb Oil and Gas Pool in accordance with the terms and conditions of Rule 11 (b)(2) of the General Rules for the Prorated Gas Pools in New Mexico as promulgated by Order No. R-8170, as amended.

(2) An unorthodox gas well location in the Tubb Oil and Gas Pool is hereby approved for the applicant's N.G. Penrose Well No. 4 located as described above.

(3) A standard 160-acre gas spacing and proration unit consisting of the NE/4 of said Section 13 shall be simultaneously dedicated to the N.G. Penrose Wells Nos. 1, 2, and 4, as described above, within the Tubb Oil and Gas Pool.

(4) Upon completion of the workover operations in the subject wells, the applicant shall consult with the supervisor of the Hobbs district office of the Division to make adjustments and/or corrections to the allocation percentages submitted as evidence in this case.

(5) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.