ORYX

Oryx Energy Company
24 Smith Road
PO Box 1861
Midland TX 79702-1861
915 688 0300

Southwestern
Production Region

COPY

April 15, 1991

State of New Mexico
Oil Conservation Division
P. O. Box 2088
310 Old Santa Fe Tr.
Santa Fe, New Mexico 87501

Attn: Michael Stogner,
Hearing Examiner & Petroleum Engineer

Re: Request to Downhole Commingle the
Hardy Tubb Drinkard & Oil Center Blinebry Pools
J. A. Akens #12, 660' FSL & 330' FEL,
Sec. 3, T-21-S, R-36-E
Lea County, New Mexico

Dear Mr. Stogner:

Oryx Energy Company requests administrative approval for an exception to Rule 303-A to permit the downhole commingling of production from the Hardy Tubb Drinkard and Oil Center Blinebry pools in the J. A. Akens #12. This well currently produces 19 BOPD, 21 BWPD, and 216 MCFD from Drinkard perforations at 6554'-6880', and is on artificial lift. Oryx intends to add performations in the Blinebry from 5828'-66'. The Blinebry is expected to produce 7 BOPD, 5 BWPD, and 80 MCFD. Both zones will be produced via sucker rod pump with the pump set at approximately 6904'. The total combined production from the two zones is expected to be 26 BOPD, 26 BWPD, and 296 MCFD. Oryx is proposing to allocate the production between the two zones by calculating the difference between what the well produces just prior to the workover and what the well produces after the workover.

The estimated bottom-hole pressures are 1500 psi in the Drinkard and 2000 psi in the Blinebry. The fluids from each of these zones are compatible with the fluids from the other zone and combining the fluids will not result in the formation of any precipitates which might damage either reservoir. Commingling the two zones will not jeopardize the efficiency of any future secondary recovery operations in either of the zones. The total value of the oil and gas to be commingled will be equal to the value of same if the two zones were produced separately. Both zones have identical ownership (working interest, royalty, and overriding royalty).

A plat of the subject lease, a wellbore schematic, a summary of the well's history, a Drinkard production decline curve, and a C-116 form for the Drinkard is attached.

All offset operators have been notified by registered mail by a copy of this application. (See list attached)

Yours truly,

ORYX ENERGY COMPANY

Greg Cielinski mp

Greg Cielinski
Engineer
A/C 915 688-0445

Attachments

GC/ak

J. A. Akens Lease
Sec. 3, T-21-S, R-36-E
Lea County, New Mexico

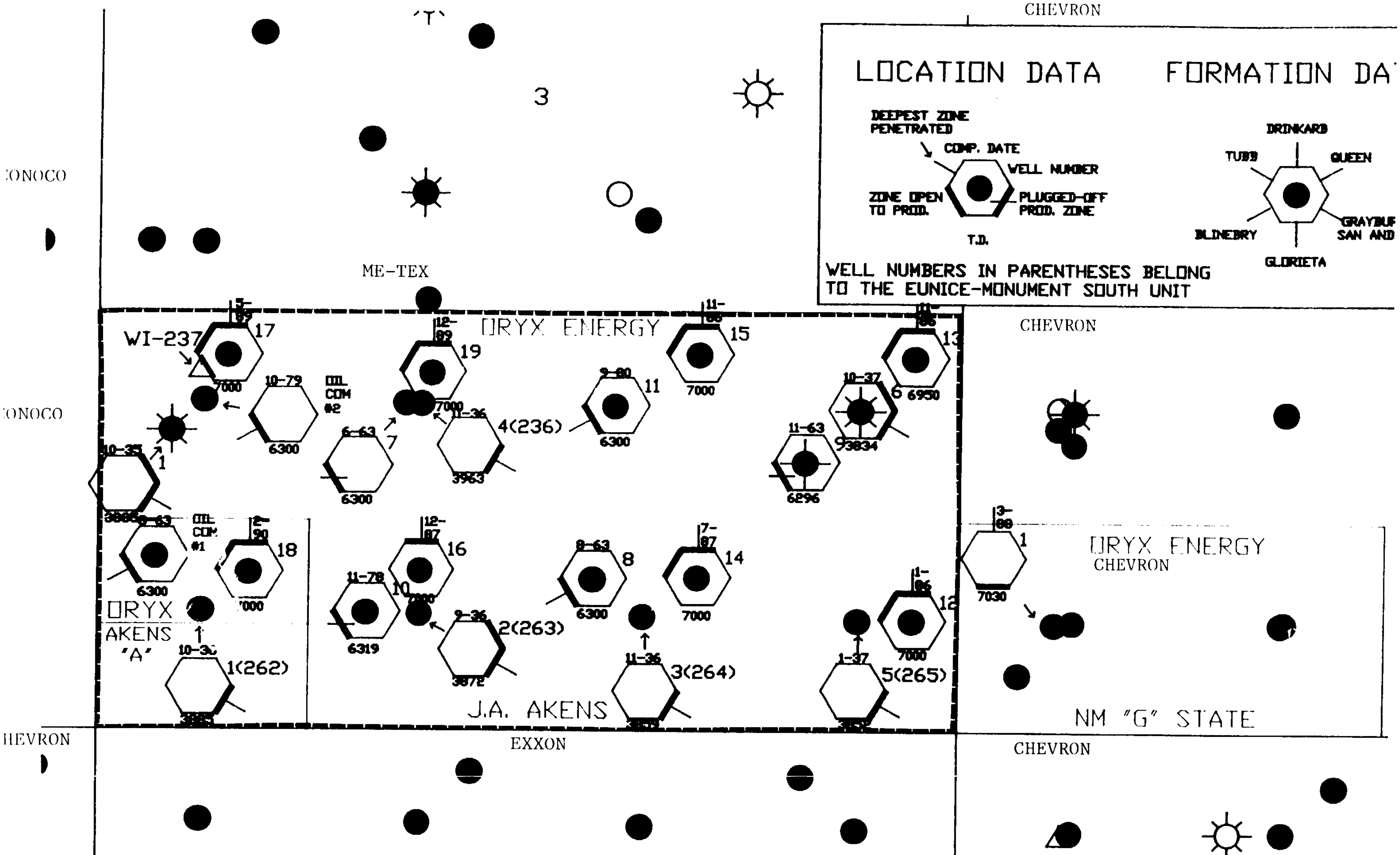
OFFSET OPERATORS

1. Chevron U.S.A.
   Box 3108
   Farmington, New Mexico 87499

2. Conoco Inc.
   501 Airport Dr.
   Petroleum Center Bldg.
   Farmington, New Mexico 87401-2697

3. Exxon Company U.S.A.
   Box 1600
   Midland, Texas 79702

4. ME-TEX Supply Company
   Box 2070
   401 W. Taylor
   Hobbs, New Mexzico 88240



J.A. AKENS LEASE AREA

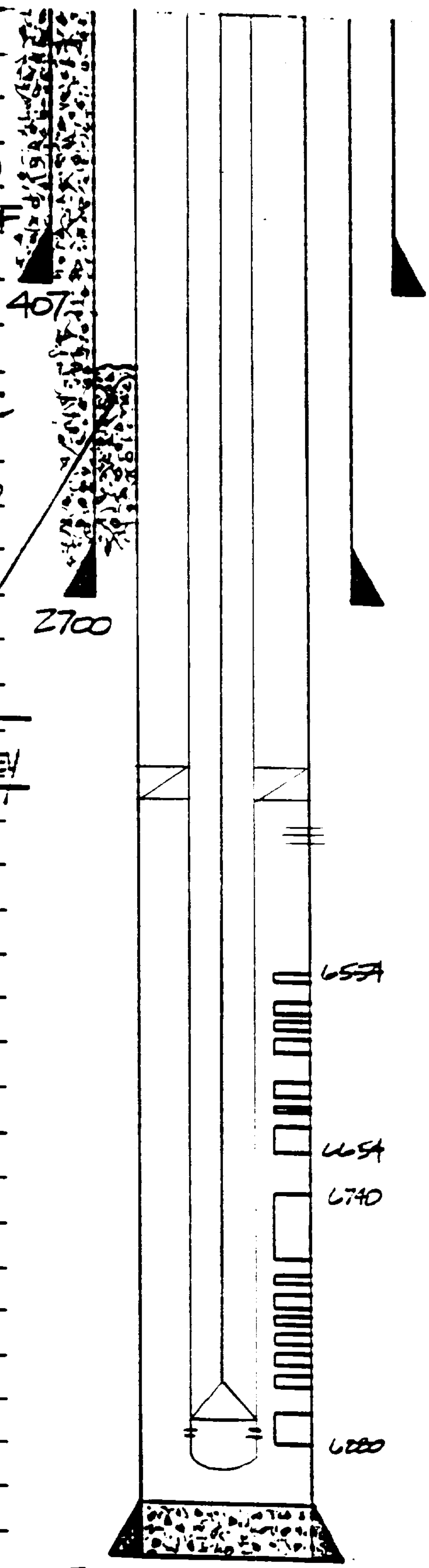
T 21-S, R 36-E LEA COUNTY, NEW MEXICO

WELL COMPLETION SKETCHES

WELL: J.A. AKENS No. 12
FIELD: HARDY DRINKARD
DATE: 4-1-91

[ ] PRESENT COMPLETION [X] SUGGESTED COMPLETION

PERMANENT WELL BORE DATA	DATA ON THIS COMPLETION
13 3/8", 48#, H-40 ST&C SURFACE CSG. CS± 407. CMT'D W/ 450 SXS. CIRC 10 SXS TO SURF	KB - 3567 GL - 3553
8 5/8", 24#, K-55, ST&C INTERMEDIATE CSG. CS ± 2700. CMT'D W/ 1350 SXS. CIRC 300 SXS TO SURFACE.	2 7/8", 6.5#, J-55 Tbg TAC ±5700' SN 6904' PN 6905' MA 6908' TS 6939'
TOC ± 1200 VIA TEMP SURVEY	76 Rod String 1 1/4" Pump
	Perf Blinebry 5828-34', 42-53', 62-66'
	SET III 6554-57, 6576-79, 6584-90, 6594-98, 6616-21, 6624-26, 6644-54 1 JSPF.
5 1/2", 15.5 & 14#, K-55 ST&C PRODUCTION CSG. CS± 7000'. CMT'D W/ 1100 SXS CMT. DID NOT CIRC. TOC ± 1200 VIA TEMP SURVEY.	SET IIA 6740-6782, 1 JSPF TOTAL 43 HOLES SET II 6774-6830 SELECTIVE 1 SPF, TOTAL 22 Ho
TD & CS : 7000 PBTD: 6945	SET I 6864-6880 TOTAL 17 HOLES



J. A. AKENS NO. 12

WELL HISTORY

LOCATION: 660' FSL & 330' FEL, UNIT "X", SEC. 3, T-21-S, R-36-E, DRINKARD FIELD, LEA COUNTY, NEW MEXICO

ELEVATIONS: KB - 3567' GL - 3553'

DEPTHS: TD - 7000' CS - 7000' PBTD - 6945'

SPUDDED: 12/03/85 COMPLETED: 1/21/86

CSG DATA: SURFACE - 13-3/8" 48# H-40 ST&C CSG. CS ±407'. CMTD W/ 450 SX CLASS "C". CIRC 10 SX TO SURFACE.
INTERMEDIATE - 8-5/8" 24# K-55 ST&C CSG. CS ±2700'. CMTD W/ 1350 SX. CIRC 300 SX TO SURFACE.
PRODUCTION - 5-1/2" 15.5 & 14.0# K-55 ST&C CSG. CS ±7000'. CMTD W/ 1100 SX. DID NOT CIRC. TOC ±1200' VIA TEMP SURVEY.

LOGS AVAILABLE:

1. DRESSER-ATLAS GR/CNL-FDC LOG DATED 12/20/85 FROM 6996' TO SURF.
2. DRESSER-ATLAS GR/DUAL INDUCTION LOG DATED 12/20/85 FROM 6997-2698'.
3. DRESSER-ATLAS GR/CCL DATED 1/06/86 FROM 6950-5000'.

WELL HISTORY:

1/03/86 BEGAN COMPLETION. RIH W/ BIT & SCRAPER TO 6945' (PBTD). CIRC HOLE CLN W/2% KCL. PERF DRINKARD SET I 6864-80', 1 JSPF, TOTAL 17 HOLES. HOWCO ACIDIZED DRINKARD SET I 6864-80' W/3000 GALS 20% NEFE HCL IN 1 STAGE W/34 BS. BDP 3600, MP 4800, MP 2600, AP 3100, FP 2600, ISIP 2300, 15 MIN SIP 2100, AIR 4 BPM, (-157 BLAW). BALLED OUT W/ TP FROM 3200-5000 PSI. 1/2 HR F 0 BO, 10 BLAW, TP 2100 TO 0 PSI. 6-1/2 HRS SWAB 0 BO, 53 BLAW, FL SURF TO 6300, GOOD GAS BLOW.

1/10/86 13 HR SITP 1100 PSI. 1/2 HR F TR COND, 13 BLAW, STRONG GAS, TP 1100-0 PSI. 8 HRS SWAB TR COND, 12 BLAW, STRONG GAS, FL 6000' & SCATTERED. WELL BEGAN FLOWING "WET GAS". TEST GAS THRU TEST SEP 11 HRS, F 6 BO, 0 BW, 404 MCF/D RATE, 24/64" CHK, FTP 240 PSI.

1/11/86 11 HRS F 4 BO, 10 BLW, 480 MCF/D RATE, 24/64" CHK, TP 240-250 PSI.

1/14/86 63 HR SITP 1800 PSI. KILL WELL. POH W/ TBG & PKR. PERF DRINKARD SET II 6786-88, 6794-98, 6802-04, 6811-13, 6819-21, 6826-30 & SET IIA 6740-82, 1 JSPF, TOTAL 65 HOLES. SET RBP @ 6850' (ABOVE SET I).

1/15/86	HOWCO ACIDIZE DRINKARD SET II & IA 6740-6830 W/ 3500 GALS 15% NEFE HCL IN 1 STAGE W/ 100 BS. BDP 1200, MP 3600, MP 3000, AP 3470, FP 3600, ISIP 2500, 15 MIN SIP 1800. AIR 5.3 BPM. BALL ACTION 3300 TO 3600 PSI. 1-1/4 HRS F 0 BO, 21 BLAW, 20/64" CHK, TP 1800 TO 0 PSI. 3-1/2 HRS SWAB 16 BO, 87 BLAW. WELL BEGAN FLOWING. 14-1/2 HRS OVERNITE F 13 BO, 59 BLAW, 26/64" CHK, TP 50-175 PSI, 280 MCF/D.
1/16/86	4 HRS F 7 BO, 6 BLAW, 380 MCF/D RATE, 26/64" CHK, FTP 175 PSI. KILL WELL. POH W/ RBP. RIH W/ PROD PKR & TBG. SWAB WELL IN FLOWING.
1/17/86	11 HRS F 10 BO, 55 BLW, 253 MCF/D RATE, 24/64" CHK, FTP 560 PSI. RLSE RIG.
1/18/86	24 HRS F 25 BO, 59 BLW, 5 BFW, 387 MCF/D, 24/64" CHK, TP 400 PSI.
1/19/86	24 HRS F 22 BO, 33 BW, 472 MCF, 24/64" CHK, TP 425 PSI.
1/20/86	24 HRS F 30 BO, 28 BW, 556 MCF, 24/64" CHK, TP 450 PSI.
1/21/86	I.P. 24 HRS F 25 BO, 26 BW, 623 MCF, GOR 24,920/1, 24/64", TP 475 PSI.
6/25/86	WORKOVER NO. 1: TO FRAC DRINKARD SET II & IIA PERFS. KILL WELL. POH W/ TBG & PKR. SET RBP ±6852' (ISOLATE SET II & IIA PERFS). FRAC PERFS 6740-6830 W/ 16,000 GALS VERSAGEL 1500 PAD, 2000 GALS GELLED KCL SPACER, 30,000 GALS VERSAGEL 1400 W/ 50,500 # 20/40 SD AND 500 SCF N^2/BBL. BDP 1300, MP 6250, MP 1300, AP 5800, FP 6200, ISIP 3250, 15 MIN SIP 3040. AIR 18 BPM. SI 4 HRS. 4-1/2 HRS F 0 BO, 70 BLW, TP 2200 TO 0 PSI.
6/27/86	7 HRS SWAB TR BO, 152 BLAW, FL 1100-3000, WELL BEGAN FLOWING. 17 HRS F 8 BO, 249 BLW, 3/4" CHK, TP 0 TO 110 PSI.
6/28/86	1 HR F 1 BO, 14 BLW, TP 110 PSI. KILLED WELL. TAG & CLN OUT FILL 6836-6852'. POH W/ RBP. SET PROD PKR & TBG.
6/29/86	16 HRS SITP 1540. 24 HRS F 33 BO, 226 BLW, 577 MCF/D, 48/64" CHK, TP 190 PSI.
6/30/86	24 HRS F 41 BO, 124 BLW, 647 MCF/D, 48/64" CHK, TP 170 PSI.
7/01/86	24 HRS F 27 BO, 33 BLW, 49 BW, 626 MCF, 48/64" CHK, FTP 175 PSI.

10/08/87	WORKOVER NO. 2 TO ADD ADD'L DRINKARD & TUBB PAY AND FRACTURE STIMULATE. KILLED WELL, POH W/TBG, SET RBP @ 6695 & NU 5000 PSI WH. PERF DRINKARD SET III 6554-57, 6576-79, 6584-90, 6594-98, 6616-21, 6624-26 & 6644-54, 1 JSPF, 39 HOLES.
10/10/87	PFT TREAT PERFS 6554-6654 W/3400 GAL NE 2% KCL IN CIRC MODE. SPOT 3000 GALS 20% NEFEHCL TO TOOL. PERFS WOULD NOT BREAK, BLEW OUT STRIPPER RUBBER. DISPLACED ACID. POH. RAN RDG. SWAB 1 HR, REC 0 BO 21 BLAW - WELL BEGAN FLOWING. 12 HR F 1 BO, 49 BLAW, TP 180 PSI.
10/11/87	24 HRS F @ 202 MCF/D RATE.
10/13/87	24 HRS F 14 BO, 0 BW, 240 MCF, 100 PSI FTP. ACIDIZED DRINKARD SET III 6554-6654 W/5000 GALS 20% NEFEHCL + 60 RCNBS. BDP 390 PSI, ISIP 2250, 15 MIN SIP 1500, AIR 6.2 BPM. BALL ACTION 450 TO 3730 PSI. 1 HR SWAB 0 BO, 12 BLAW, FL 0-1800 - WELL STARTED FLOWING. 18 HRS F 17 BO, 14 BLAW, FTP 50 PSI. POH W/TBG & PKR.
10/15/87	FRAC DRINKARD PERFS 6554-6654 DN 5-1/2" CSG W/52000 GALS TFTD-4, 23500 GALS CO2 & 95,000 LBS 20-40 SAND. BDP 3640, MAX 3640, MIN 3370, FP 3640, ISIP 2840, 15 MIN SIP 2080, AIR 38.7 BPM. 2 HR SITP 1750. 17 HRS F 0 BO, 334 BLW, FTP 1750-50.
10/16/87	24 HRS F 3 BO, 315 BLW (-707 BLW) 1% O.C. CO SAND, PULL RBP, RUN PROD TBG & PKR, SWAB IN.
10/19/87	22 HR F 22 BO, 212 BLW, 400 PSI FTP.
10/21/87	23 HR F 58 BO, 219 BLW, 446 MCF, 20/64" CHK, 325# TP.
10/22/87	24 HR F 60 BO, 138 BLW, 446 MCF, 20/64" CHK, 310# TP.
10/23/87	24 HR F 51 BO, 94 BLW, 472 MCF, 20/64" CHK, 300# TP.
10/24/87	24 HR F 58 BO, 42 BLW, 19 BW, 497 MCF, 22/64" CHK, 310# TP.
10/25/87	24 HR F 57 BO, 19 BW, 480 MCF, 22/64" CHK, 220# TP.
10/26/87	24 HR F 55 BO, 11 BW, 497 MCF, 22/64" CHK, 220# TP.
01/15/89	24 HRS F 23 BO, 1 BW, 412 MCF, 100 PSI FTP.

~~CUMULATIVE PRODUCTION (THRU 12/88): 26700 BO, 475500 MCF~~

CUMULATIVE PRODUCTION (THRU 10/90): 37000BO, 604000 MCF

10/15/90	TEST PUMP 12 BO/8BW/208 MCFD
1-2-91	Tag Fill 6715'. Acdz perfs 6554-6880' w/ 7500 Gal 85/15 NEFE HC xylene mixture in 4 stgs. Blk w/ CRPS. Good BA. B- P 12 BOPD, 8 BWPD, 208 MCFD A- p 16 BOPD 56 BWPD, 148 MCFD

J. A. AKENS NO. 12

DRINKARD