

DRILLER'S LOG

ENSIGN OPERATING, INC.
DUDREY 2-18
SECTION 18-T33S-R31W
SEWARD COUNTY, KANSAS

COMMENCED: 05-26-00
COMPLETED: 05-29-00

SURFACE CASING: 639' OF 8 5/8" CMTD
W/185 SKS LITE + 2% CC + 1/4#/SK FLOCELE.
TAILED IN W/125 SKS PREMIUM PLUS + 2%
CC + 1/4#/SK FLOCELE.

FORMATION

DEPTH

SURFACE HOLE	0 - 650
SHALE & RED BED	650 - 1286
LIMESTONE & SHALE	1286 - 1960
RED BED & SHALE	1960 - 2455
LIMESTONE & SHALE	2455 - 2850 RTD

I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

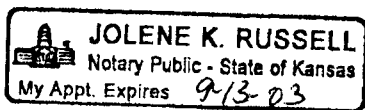
Wray Valentine
WRAY VALENTINE

STATE OF KANSAS: ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 2ND DAY OF JUNE, 2000.

JOLENE K. RUSSELL

Jolene K Russell
NOTARY PUBLIC



06/08/00 OPERATIONS @ 7:00 A.M. RTD 2850', LTD 2802'. PERFS: UPPER KRIDER 2536', 2538', 2540', 2542' & 2544'. HERRINGTON PERFS 2570', 2572', 2574', 2576', 2578', 2580', 2582', 2584', 2586' & 2588'. FTP 10 PSI, SICP 185 PSI FLOW TEST TO FRAC TANK 32/48" CK.

WORK DONE 06/07/00 (DAY 4) 14 HR SITP 130 PSI, SICP 195 PSI. HES ACID FRAC HERRINGTON & UPPER KRIDER PERFS THRU 2-3/8" TBG & DOWN TBG/CSG ANNULUS AS FOLLOWS.

- 1) P 20,000 GALS (10,000 GALS) 28% GELLED ACID COMINGLED W/ 50 QUALITY FOAM. FLUID RATE 5 BPM, N2 RATE 2480 SCFM, MTP 1080 PSIG, ATP 1010 PSIG, AIR 10 BPM.
- 2) P 4000 GALS 2% KCL FLUSH COMINGLED W/ 50 QUALITY FOAM. FLUID RATE 5 BPM, N2 RATE 2400 SCF/M, MTP 1050 PSIG, ATP 1020 PSIG, AIR 10 BPM. ISIP 780 PSIIG, 15 MIN 650 PSIG, 30 MIN 630 PSIG, 45 MIN 620 PSIG, 60 MIN 570 PSIG.
- 3) LEFT WELL SI FOR 60 MIN TO ALLOW FRACTURE TO CLOSE. SICP & SITP 570 PSIG AFTER 60 MIN SI.
- 4) P 5600 GALS (2800 GALS) 28% GELLED ACID COMINGLED W/ 50 QUALITY FOAM. FLUID RATE 1.3 BPM, N2 RATE 600 SCF/M. MTP 613 PSIG, ATP 550 PSIG, AIR 2 BPM.

ENSIGN OPERATING CO
DUDREY # 2-18
2495 FNL - 1658' FEL
SEC 18 - T33S - R31W
SEWARD COUNTY, KS

GL: 2734' KB: 2744'
PTD: 2850'

CONTRACTOR: CHEYENNE DRLG RIG # 1

AFE NUMBER: 00D009
API: NUMBER: 175- 217970000

DRILLING REPORT

06/07/00(CONT).

P 3000 GALS 2% KCL WTR(1000 GALS) COMINGLED W/ 75 QUALITY FOAM. FLUID RATE .7 BPM, N2 RATE 750 SCF/M, MTP 720 PSIG ATP 710 PSIG, AIR 2 BPM. ISIP 680 PSIG, 30 MIN SIP 617 PSIG. BAWTR 298, BLWTR 72, 191,000 SCF. INSTALL ADJUSTABLE CK. START FLOWING UP TBG THRU 32/48" CK TO SW TANK. RECOVERED 23 BLW & 5 BAW IN 3 HRS. 3 HR SICP 330 PSIG, FTP 100 PSIG. LEFT FLOWING TO FRAC TANK O/N. RECOVERED 49 BAW IN 13 HRS. 293 BAWTR.
DC:\$35,700 CC:\$135,430