

## YA #5 Horizontal Hole Section

START DRILLING CEMENT, DRILL OUT FLOAT COLLAR AND SHOE AND DRILL 5' OF NEW HOLE , TO 7965'

CIRCULATING BOTTOMS UP, AND CATCH SAMPLES. TOH WITH PIPE AND COLLARS

RU HALLIBURTON , LOG. GAMMA RAY AND CCL FROM TD. PU DIRECTIONAL TOOLS AND BIT, PU 2 7/8 PH6 TBG. RIH WITH TOOLS AND 2 7/8 AOH DP, TESTING TOOLS EVERY 40JTS. MUD UP, RU AND RUN GYRO SURVEY.

MUDDING UP WELL BORE & MUD PITS W/ FLO-PRO (NT) DRILLING FLUID. WAIT ON 2"X4" SWEDGE. RIG UP CIRC HEAD.

SLIDE & BUILD CURVE F/ 7963' - 7966'; ROP 3.0 FPH

WIRELINE OUT HOLE MAKE CONNECTION ( FIX CIRC HEAD LEAK ) WIRE LINE IN HOLE W/ STEERING TOOL

SLIDE & BUILD CURVE F/ 7966' - 7966'; ROP 5.0 FPH

SLIDE & SURVEYS F/ 7986' - 8015' ROP 6.4 FPH

WIRELINE OUT HOLE & RIG DOWN GYRO-DATA. TOH; CHANGE OUT MUD MOTOR & 4 3/4" BIT ( MOTOR 3.25 BEND )

WORK ON # 1 MUD PUMP. TIH W/ 4 3/4" BIT & DIR TOOLS. RIG UP POWER SWIVEL. BREAK CIRC & WASH TO BOTTOM

SLIDE/SURVEYS F/ 8015' - 8024' ( NATION MOTOR W/ 3.25 BEND ) ROP 9.0 FPH

CIRC HOLE WAIT ON ORDERS DIRECTIONAL & POWER TONG OPERATOR. RIG DOWN POWER SWIVEL. TOH; LD MUD MOTOR & 4 3/4" BIT. WAIT ON MUD MOTOR FROM ODESSA PICK UP MUD MOTOR & TIH ( NATION MOTOR W/ 3.76 BEND ). TIH; TESTING MWD TOOL & MUD MOTOR

SLIDE/SURVEYS F/ 8024' - 8045' ROP 6.0 FPH

**LOST MUD RETURNS**, CONDITION MUD, BUILD LCM PILLS & SPOT **ON BOTTOM W/ NO RETURNS**. BUILD VOLUME; PUMP MUD PILLS- TO REGAIN CIRC; SURVEY W/ MWD (NO SUCCESS). TOH, LAY DOWN 9 JTS AOH DP BUILD VOLUME IN MUD PITS, PUMPED 60 BBL MUD PILL ON BOTTOM

TOH W/ DP, LAY DOWN MWD TOOL & BENT MOTOR. BUILD VOLUME. PU 4 3/4" BIT ON 2 7/8" DP, TIH TO 7400' TIH; PICK UP 6 JTS DP. PICK UP 3 JTS DP W/ BIT @ 8036'; PUMPED 50 BBLS ACTIVE MUD DOWN DP

RU HALLIBURTON, MIXED, PUMPED & SPOTTED 25 BBLS (MI) FORM-A-SET AK POLMER PILL; DISPLACE POLMER W/ 37 BBLS ACTIVE MUD OUT BOTTOM OF BIT. PULL 2 STANDS DP, BIT @ 7847'; PUMP 5 BBLS DOWN DP TO CLEAR, WELL CIRC. CLOSED HYDRIL & SQUEEZED @ 1/2 BPM FOR 25 BBLS OF ACTIVE MUD. SQUEEZE PRESSURE 680 PSI, DROP TO 445 PSI IN 20 MIN WHILE PUMPING @ 1/2 BPM PRESSURE. BUILDED TO 550 PSI, STOP PUMPING TO LET POLMER GEL UP.

BIT DEPTH 7847' CIRC BOTTOMS UP ( **W/ FULL RETURNS**). TIH TO 7972' PICK UP SWEVEL WASH TO BOTTOM @ 8045'. TRIP OUT HOLE W/ DP. PICK UP MUD MOTOR RESET TO 2.96 BEND ; PICK UP MWD TOOL PU 4 3/4" BIT, MUD MOTOR, MWD TOOL & TIH WASH 90' TO BOTTOM

SLIDE/SURVEYS F/ 8045' - 8062' ROP 4.9 FPH ( LOST 100% RETURNS)

MIX 100 BBLS OF 60# PER BBL SAFE-CARB

SLIDE/SURVEYS F/ 8062' - 8073' ROP 3.7 FPH ( AT LAST OF DRLG NO FLUID RETURNS)

TOH; ADJUST MUD MOTOR TO 1.37 DEG BEND TIH; W/ MOTOR & 12 JTS PH-6 DP & LD SAME

PU SWIVEL; REAM FROM 7960' TO 8073'

DRLG F/ 8073' - 8101' ROP 14.0 FPH

SWIVEL BROKE DOWN; REPAIR.

RU WIRELINE UNIT, RAN IN HOLE TO 8005', ATTEMPTED TO GET TO BIT DEPTH OF 8097', W/ NO SUCCESS, PULL SURVEY FROM 8005' TO 7767', RD WIRELINE UNIT. PICK UP SWIVEL

DIRG F/ 8101' - 8200' ROP 19.8 FPH

PUMP DOWN HOLE W/ FRESH WATER ( **W/ NO RETURNS**). TOH W/ 2 7/8" AOH DP & 4 3/4" BIT ; PICK UP 6" BAKER LOC-A-MATIC HOLE OPENER. TIH W/ 3- 7/8" PILOT BIT, 6" BAKER LOC-A-MATIC HOLE OPENER & DP ; PICK UP POWER SWIVEL, REAM OUT 4 3/4" HOLE TO 6" HOLE FROM 7960' TO 8200'.

PUMP DOWN DP W/ FRESH WATER. LAY DOWN SWIVEL, 6 JTS 2 7/8" DP, TOH W/ HOLE OPENER & LAY DOWN SAME WAIT ON 7" PACKER. RUN 12 JTS 2 7/8" AOH TAIL PIPE, PU 7" PAKER, TIH, (TAIL PIPE @ 8137') SAFETY MEETING; RIG UP HALLIBURTON ACID TRUCK. SPOT 300 GALS OF 28% HYDROCHLORI ACID @ 8137' @ 4 BPM (NO PRESSURE)

LD 5 JTS 2 7/8" DP, BOTTOM OF TAILPIPE @ 7980' & SET 7" PKR @ 7602'

ACIDIZE INTERVIEL 7960' 8200, OPEN HOLE W/ 4700 GALS OF 28% HYDROCHLORI ACID

MAX TREATING PRESSURE 925 PSI, AVG TREATING PRESSURE 465 PSI, MAX RATE 5.1 BPM, AVG RATE 4.8 BPM

ISIP 0 TOH W/ 11 STAND DP, START LAYING 2 7/8" DP SAFETY MEETING: RIG UP LAY DOWN MACHINE & LAY DOWN 2 7/8" DP RIG DOWN LAY DOWN MACHINE

PU BAKER 7" BRIDGE PLUG; TIH; SET BRIDGE PLUG @ 1048' RELEASE FROM BP W/ ON & OFF TOOL

FILL HOLE W/ FRESH WATER & TOH. SAFETY MEETING: NIPPLE DOWN BOP STACK

SAFETY MEETING; CUT OFF 7" CSG, NU WELL HEAD & TEST SAME TIH W/ ON & OFF TOOL. LATCH ON TO BRIDGE PLUG WELL STARTED BLOWING; KILL WELL W/ FRESH WATER PUMP 125 BBLS WATER DOWN DP

RELEASE BRIDGE PLUG & LAY DOWN 33 JTS 2 7/8" DP. CLOSE WELL IN W/ MASTER VALVE; ND BOP STACK. CLEAN MUD PITS; START RIGGING DOWN

(RELEASED PATTERSON UTI RIG # 513 @ 7:00 PM 10/10/2005 )