

DAILY WORKOVER REPORT - WEST MEREDIE 4

WELL : WEST MEREDIE 4
PERMIT : PL4
REPORT DATE : 18 JUNE 1993
CONTRACTOR : ATCO A8
SUPERVISOR : R D GOOSEM
KB - CF : 18.2 FT
OPERATIONS (0700 HRS) : RIG RELEASED. GO HOME !

DAY 5, 17 JUNE 1993

TIME	OPERATIONS PERFORMED
0630	START ENGINES. OPEN WELL. CONTINUE TO RIH OPEN ENDED 2-3/8" EUE TUBING. RAN 150 JOINTS. LAND TUBING.
0700	RIG DOWN FLOOR. NIPPLE DOWN BOP. NIPPLE UP WELLHEAD ASSEMBLY.
0830	RIG RELEASE. RIG DOWN, CLEAN RIG, TIDY UP.
1900	LEAVE RIG ON WM4.

NOTE: 2-3/8" TUBING FROM WM4. QUITE A FEW JOINTS ARE BENT - PROBABLY FROM MILLING & FISHING OPERATIONS IN 1984. SOME WILL HAVE TO BE REPLACED IN FINAL COMPLETION AFTER FRAC.

WELL : WEST MERELINE 4
 PERMIT : PL4
 REPORT DATE : 17 JUNE 1993
 CONTRACTOR : ATCO A8
 SUPERVISOR : R D GOOSEM
 KB - CF : 18.2 FT
 OPERATIONS (0700 HRS) : LAND TUBING. RIG DOWN FLOOR.

DAY 4, 16 JUNE 1993

TIME	OPERATIONS PERFORMED
0630	START ENGINES. OPEN WELL. CONTINUE TO POOH. BREAK OUT MILL.
0815	REPAIR BURST HYDRAULIC HOSE.
0900	MAKE UP BIT AND SCRAPER AND RIH ON 7 X 4-1/8" D/C AND 2-7/8" TUBING STRING. SCRAPER HUNG AT \pm 4,937 FT KB - WHERE PACKER WAS ORIGINALLY STUCK. DID NOT GO ANY FURTHER WITH SCRAPER - DID NOT WANT TO GET STUCK IN POSSIBLY DAMAGED CASING.
1115	RIG UP CIRCULATING HEAD AND CIRCULATE WELL CLEAN WITH 3% KCL BRINE.
1230	POOH. LAY OUT 2-7/8" TUBING.
1430	REPAIR HYDRAULIC HOSE.
1515	CONTINUE TO POOH. LAY OUT BHA.
1630	CHANGE BOP RAMS, TONG DIES ETC.
1700	RIH OPEN ENDED 2-3/8" EUE TUBING.
1830	SW SDFN
NOTE:	THE WELL WILL BE LEFT SUSPENDED WITH OPEN ENDED 2-3/8" TUBING WITH THE WORKOVER RIG EQUIPMENT LEFT ON SITE. IT IS PROPOSED TO NOW CONDUCT THE FRAC ON THIS WELL PRIOR TO, THE SOON TO BE DRILLED EM33. THIS WORK IS FORECAST TO COMMENCE IN LATE JULY 1993.

WELL : WEST MEREENIE 4
PERMIT : PL4
REPORT DATE : 16 JUNE 1993
CONTRACTOR : ATCO A8
SUPERVISOR : R D GOOSEM
KB - CF : 18.2 FT
OPERATIONS (0700 HRS) : CONTINUE TO POOH

DAY 3, 15 JUNE 1993

TIME	OPERATIONS PERFORMED
0630	START ENGINES. OPEN WELL. WORK PIPE. STUCK, TORQUES UP - CAN'T ROTATE.
0645	LAY OUT POWER SWIVEL AND PICK UP SINGLE SO CAN WORK PIPE. CAN PICK UP - CAN'T GO DOWN. LAY OUT CIRCULATING HEAD AND POOH. NO OVERPULL BUT CAN'T GO DOWN. AFTER PULLING 15 STANDS CAME FREE.
0800	RIH TAG FISH.
0830	NIPPLE UP CIRCULATING HEAD AND PICK UP POWER SWIVEL. ATTEMPT TO BREAK CIRCULATION - JETS PLUGGED. JAR ON FISH - CLEAR JETS.
0930	MILL ON JUNK - JARRING DOWN OCCASIONALLY.
1630	HAMMER PACKER DOWN TO 5026.9 FT KB. SOME 30 FT BELOW BOTTOM PERF.
1700	LAY OUT POWER SWIVEL AND CIRCULATING HEAD.
1730	POOH.
1830	SW SDFN.
NOTE:	PACKER NEEDED HAMMERING DOWN PAST PERFS - THEN VIRTUALLY FELL TO BOTTOM.

WELL : WEST MERFEE
 PERMIT : FL4
 REPORT DATE : 15 JUNE 1993
 CONTRACTOR : ATCO AS
 SUPERVISOR : R D GOOSEM
 KB - CF : 18.2 FT
 OPERATIONS (0700 HRS) : CONTINUE TO MILL ON JUNK

DAY 2, 14 JUNE 1993

TIME	OPERATIONS PERFORMED
0630	CHANGE FUEL FILTERS. START ENGINES. OPEN WELL. CHANGE BOP RAMS. CLEAN AND STRAP 4 JTS TUBING. MAKE CONNECTION.
0715	DRILL ON CEMENT.
0900	DRILL ON PACKER WITH MILL TOOTH BIT. NO PROGRESS. NO TORQUE.
1030	LAY OUT POWER SWIVEL AND CIRCULATING HEAD.
1100	POOH. LAYOUT BIT.
1300	MAKE UP 4-5/8" FLAT BOTTOM MILL AND RIH WITH 7 X 4-1/8" DRILL COLLARS ON 2-7/8" EUE TUBING.
1445	NIPPLE UP CIRCULATING HEAD AND PICK UP POWER SWIVEL.
1530	MILL ON PACKER.
1800	STUCK PIPE - WORK PIPE (40,000 OVER) FREE PIPE.
1830	SW SDFN

DAILY COST: 10,035

CUMULATIVE COST: 213,663 *

WELL : WEST MEREEHIE 4
 PERMIT : PL4
 REPORT DATE : 14 JUNE 1993
 CONTRACTOR : ATCO A8
 SUPERVISOR : R D GOOSEM
 KB - CF : 18.2 FT
 OPERATIONS (0700 HRS) : DRILL ON CEMENT

DAY 1, 13 JUNE 1993

TIME	OPERATIONS PERFORMED
0700	NIPPLE DOWN WELL HEAD. NIPPLE UP BOP. CONTINUE TO MOVE IN RIG.
0730	POOH 2-3/8" TUBING STRING.
1000	CLEAN AND STRAP 4-1/8" COLLARS AND 2-7/8" EUE TUBING.
1100	MAKE UP 4-3/4" DR5 MILL TOOTH BIT AND RIH ON 7 X 4-1/8" DRILL COLLARS AND 2-7/8" EUE TUBING STRING. TAG CEMENT AT 4896' KB.
1600	NIPPLE UP CIRCULATING HEAD AND POWER SWIVEL. RIG UP HYDRAULIC POWER PACK AND HOSES FOR POWER SWIVEL.
1800	DRILL CEMENT TO 4920 FT KB.
1830	SW SDFN

DAILY COST: 14,285

CUMULATIVE COST: 203,628

WELL : WEST MEREEHIE 4
 PERMIT : PL4
 REPORT DATE : 13 JUNE 1993
 CONTRACTOR : ATCO A8
 SUPERVISOR : R D GOOSEM
 KB - CF : 18.2 FT
 OPERATIONS (0700 HRS) : CONTINUE TO RIG MOVE & RIG UP

DAY 0, 12 JUNE 1993

TIME	OPERATIONS PERFORMED
0700	COMPLETE RIGGING DOWN AT EM7. MOVE CARRIER OFF LOCATION.
0800	WAIT ON POLE TRUCK FOR MOVE TO WM4. ROADS IN EAST OK. ROADS IN WEST STILL WET AND SLIPPERY IN PLACES. (POLE TRUCK CARTING CRUDE).
1100	MOVE RIG CARRIER. TOUCH UP ROAD IN WEST WITH GRADER. MOVE RIG EQUIPMENT TO WM4.
1800	SDFN

DAILY COST: 8,750

CUMULATIVE COST: 189,343 *

(* includes work performed between 10 May to 12 June 1993)

DAILY WORKOVER REPORT - WEST MEREEENIE 4

WELL : WEST MEREEENIE 4
REPORT DATE : 27 MAY 1993
CONTRACTOR : ATCO A8
SUPERVISOR : R D GOOSEM
KB - CF : 18.2
OPERATIONS (0700 HRS) : CONTINUE TO RIH WITH 2-3/8" TUBING

DAY 11 - 26 MAY 1993

TIME FROM	TIME TO	OPERATIONS PERFORMED
0630	0715	OPEN WELL. START ENGINES. MILL ON PACKER.
0715	0945	LAY OUT POWER SWIVEL AND CIRCULATING HEAD. POOH. INSPECT MILL - IN GOOD CONDITION.
0945	1100	LAY OUT BUMPER SUB, JARS AND COLLARS.
1100	1330	RIH WITH 4 STANDS 2-3/8" TUBING AND 2-7/8" TUBING.
1330	1500	RIG UP TO AND PUMP ± 5 SACK CEMENT PLUG (CLASS A + 0.4% HR-4). SPOT PLUG ON PACKER. DISPLACE AS BALANCED PLUG. POOH 2 SINGLES. REVERSE CIRCULATE TUBING CLEAR.
1500	1530	SQUEEZE CEMENT - MAX. SURFACE PRESSURE 2000 PSI. PRESSURE HELD CONSTANT FOR ± 15 MINS. NO BLEED OFF. RELEASED PRESSURE.
1530	1745	POOH. LAY OUT 2-7/8" TUBING.
1745	1830	RIH 2-3/8" TUBING (CHANGE BOP RAMS)
1830		S.W. S.D.F.N.

COSTS

TOTAL 12,050
CUMULATIVE 135,433

DAILY WORKOVER REPORT - WEST MEREENIE 4

WELL : WEST MEREENIE 4
 REPORT DATE : 26 MAY 1993
 CONTRACTOR : ATCO A8
 SUPERVISOR : R D GOOSEM
 KB - CF : 18.2
 OPERATIONS (0700 HRS) : POOH

DAY 10 - 25 MAY 1993

TIME		OPERATIONS PERFORMED
FROM	TO	
0630	0900	OPEN WELL. START ENGINES. PICK UP NEW "METAL MUNCHER" FLAT BOTTOM MILL AND RIH. PICK UP POWER SWIVEL AND CIRCULATING HEAD.
0900	1830	MILL ON PACKER. NO PROGRESS AT ALL. ONLY MODERATE TORQUE - EVEN AT HIGH WEIGHT ON MILL. POSSIBLY PACKER IS ROTATING. BUMP DOWN ON PACKER - MOVED ± 1 FT - THEN NO MORE. MILL ON PACKER. NO MOVEMENT.
1830		S.W. S.D.F.N.

COSTS

TOTAL 11,350 *
 CUMULATIVE 123,383

* DOES NOT INCLUDE HOWCO STANDBY OF \pm \$20,000

DAILY WORKOVER REPORT - WEST MEREENIE 4

WELL : WEST MEREENIE 4
 REPORT DATE : 24 MAY 1993
 CONTRACTOR : ATCO A8
 SUPERVISOR : R D GOOSEM
 KB - CF : 18.2
 OPERATIONS (0700 HRS) : CONTINUE TO MILL ON PACKER

DAY 8 - 23 MAY 1993

TIME FROM	TIME TO	OPERATIONS PERFORMED
0630	1330	OPEN WELL. START ENGINES. CONTINUE TO MILL ON PACKER WITH WASHOVER SHOE. MADE $\pm 24"$ PROGRESS TO 10.00AM, THEN NO PROGRESS TO 1330 HRS. ESTIMATED DRILLED DEPTH, 4955 FT KB OR 3 FT BELOW TOP PERF.
1330	1630	LAY OUT POWER SWIVEL AND CIRCULATING HEAD. POOH AND LAY DOWN WASHPIPE.
NOTE: WITH PROGRESS SO FAR - SHOULD BE PAST PACKER. ALL INDICATIONS IS THAT JUNK IN HOLE NOT ENTIRELY AS REPORTED IN ORIGINAL TOWER REPORT. SEEMS TO BE MORE JUNK IN THE HOLE. THIS CAUSES THE STRING TO TORQUE UP - OFTEN ABOVE BOTTOM.		
NOTE: (ALL WASHOVER MILLS 4-5/8" OD X 3-5/16" ID).		
1630	1700	PICK UP FLAT BOTTOM MILL AND RIH (MILL 4-5/8" OD).
1700	1730	SLIP AND CUT LINE.
1730	1800	CONTINUE TO RIH.
1830		S.W. S.D.F.N.

COSTS

TOTAL	10,600
CUMULATIVE	102,833

DAILY WORKOVER REPORT - WEST MEREENIE 4

WELL : **WEST MEREENIE 4**
REPORT DATE : **24 MAY 1993**
CONTRACTOR : **ATCO A8**
SUPERVISOR : **R D GOOSEMAN**
KB - CF : **18.2**
OPERATIONS (0700 HRS) : **CONTINUE TO MILL ON PACKER**

DAY 7 - 22 MAY 1993

TIME		OPERATIONS PERFORMED
FROM	TO	
0630	0830	OPEN WELL. START ENGINES. LAY OUT CIRCULATING HEAD. POOH. MILL CUTTING STRUCTURE WORN. BREAK OUT WASHPIPE.
0830	1130	MAKE UP OVERSHOT WITH SHORT MULE SHOE, 3-1/16" SPIRAL GRAPPLE AND EXTENSION SUB AND RIH (BHA - OVERSHOT AND BUMPER SUB AND JAR PLUS 6 X 4-1/8" COLLARS). PICK UP POWER SWIVEL.
1130	1230	WORK OVERSHOT OVER FISH. PULLED 5 - 10,000 LB OVER STRING WEIGHT - THEN LET GO. DID THIS A COUPLE OF TIMES.
1230	1500	LAY OUT POWER SWIVEL AND POOH. FISH HAD CAUGHT ON GRAPPLE AND BROKE SPIRAL GRAPPLE.
1500	1730	MAKE UP NEW WASHPIPE MILL SHOE, ON WASHPIPE AND R.I.H.
1730	1830	PICK UP POWER SWIVEL AND CIRCULATING HEAD. MILL ON PACKER.
1830		S.W. S.D.F.N.

COSTS

TOTAL	8,990
CUMULATIVE	92,233

DAILY WORKOVER REPORT - WEST MEREENIE 4

WELL : WEST MEREENIE 4
REPORT DATE : 24 MAY 1993
CONTRACTOR : ATCO A8
SUPERVISOR : R D GOOSEM
KB - CF : 18.2
OPERATIONS (0700 HRS) : POOH TO CHECK WASHPIPE SHOE

DAY 6 - 21 MAY 1993

TIME		OPERATIONS PERFORMED
FROM	TO	
0630	0945	OPEN WELL. START ENGINES. CONTINUE TO RIH. PICK UP POWER SWIVEL AND INSTALL CIRCULATING HEAD. REPAIR BURST HYDRAULIC HOSE.
0945	1800	MILL ON PACKER. SLOW PROGRESS. METAL FILINGS AND RUBBER RETURNS.
1800	1830	LAY OUT POWER SWIVEL AND CIRCULATING HEAD.
1830		S.W. S.D.F.N.

COSTS

TOTAL 8,450
CUMULATIVE 83,243

DAILY WORKOVER REPORT - WEST MEREENIE 4

WELL : WEST MEREENIE 4
REPORT DATE : 21 MAY 1993
CONTRACTOR : ATCO A8
SUPERVISOR : R D GOOSEM
KB - CF : 18.2
OPERATIONS (0700 HRS) : CONTINUE TO RIH WITH WASHOVER STRING

DAY 5 - 20 MAY 1993

FROM	TIME TO	OPERATIONS PERFORMED
0630	1515	OPEN WELL. START ENGINES. BREAK CIRCULATION. CONTINUE TO MILL ON PACKER. MADE $\pm 18"$. PROGRESS DECREASED - NO TORQUE.
1515	1745	RIG DOWN POWER SWIVEL AND CIRCULATING HEAD. POOH TO INSPECT WASHPIPE SHOE. WASH PIPE MILL SHOE. OK.
1745	1830	RIH WITH WASHOVER STRING.
1830		S.W. S.D.F.N.

COSTS

TOTAL 8,450
CUMULATIVE 74,793

COPY: DCR/KGH/GBN/NB11 WELL FILE

DAILY WORKOVER REPORT - WEST MEREEENIE 4

WELL : **WEST MEREEENIE 4**
REPORT DATE : **19 MAY 1993**
CONTRACTOR : **ATCO A8**
SUPERVISOR : **R D GOOSEM**
KB - CF : **18.2**
OPERATIONS (0700 HRS) : **CONTINUE TO MILL ON PACKER**

DAY 4 - 19 MAY 1993

TIME FROM	TIME TO	OPERATIONS PERFORMED
0630	0730	OPEN WELL. START ENGINES. BREAK CIRCULATION. CONTINUE TO MILL ON PACKER.
0730	0800	RIG REPAIR - CHANGE OUT HYDRAULIC PUMP.
0800	0900	CONTINUE TO MILL ON PACKER. BROKE THROUGH AND PUSHED PACKER 3 FT. LAYOUT ROTATING HEAD AND PUSH PACKER DOWN A FURTHER 12 FT. HUNG UP - PACKER AT ±TOP PERF.
0900	1215	PICK-UP POWER SWIVEL AND MILL. HANGING UP - TORQUING UP ABOVE BOTTOM - INDICATING SOME JUNK ON OUTSIDE OF WASHPIPE.
1215	1500	RIG DOWN POWER SWIVEL AND STRIPPER AND POOH TO INSPECT WASHPIPE.
1500	1745	INSTALL NEW WASHPIPE MILLING SHOE AND RIH.
1745	1800	PICK UP ROTARY SWIVEL AND INSTALL CIRCULATING HEAD.
1800	1830	CONTINUE TO MILL. S.W. S.D.F.N.

COSTS

TOTAL	10,231
CUMULATIVE	66,343

DAILY WORKOVER REPORT - WEST MEREEENIE 4

WELL : WEST MEREEENIE 4
 REPORT DATE : 19 MAY 1993
 CONTRACTOR : ATCO A8
 SUPERVISOR : R D GOOSEM
 KB - CF : 18.2
 OPERATIONS (0700 HRS) : CONTINUE TO MILL ON PACKER

DAY 3 - 18 MAY 1993

TIME FROM	TO	OPERATIONS PERFORMED
0630	0645	START ENGINES. OPEN WELL.
0645	0715	CONTINUE TO MILL ON PACKER.
0715	0830	REPAIR HYDRAULIC HOSES.
0830	0945	CONTINUE TO MILL ON PACKER. MADE $\pm 4'' - 6''$.
0945	1200	POOH TO CHECK WASHPIPE SHOE.
1200	1230	BREAK OUT SHOE. RECOVERED MOST OF TUBING STUB AND TOP HALF OF SLIDING SLEEVE WEDGED IN WASHOVER SHOE (TOTAL $\pm 20''$) TUBING STUB SPLIT AND DAMAGE EVIDENT ON BOTH STUB AND SLIDING SLEEVE DUE TO PREVIOUS MILLING OPERATIONS. NO WAY ANY OVERSHOT WOULD HAVE CAUGHT FISH.
1230	1530	MAKE UP NEW WASH PIPE MILLING SHOE AND RIH.
1530	1830	MILL ON PACKER. STRING TORQUES UP FREQUENTLY. IT IS CONSIDERED THAT TOOL IS MILLING TOP OF PACKER, BUT LOOSE PIECES OF TUBING AND SLIDING SLEEVE OCCASIONALLY JAMMING WASH PIPE. NO OVER PULL COMING OFF BOTTOM.
		SLOW BUT DEFINITE PROGRESS. MADE $\pm 4''$.
1830		S.W. S.D.F.N.

COSTS

TOTAL 10,231
 CUMULATIVE 56,112

DAILY WORKOVER REPORT - BLOODWOOD 1

WELL : WEST MEREDITH 4
REPORT DATE : 18 MAY 1993
CONTRACTOR : ATCO A8
SUPERVISOR : R D GOOSEMAN
KB - CF : 18.2
OPERATIONS (0700 HRS) : CONTINUE TO MILL ON PACKER

DAY 2 - 17 MAY 1993

TIME FROM	TO	OPERATIONS PERFORMED
0630	1030	POOH WITH FISHING ASSEMBLY (3" SPIRAL GRAPPLE). CHECK OVERSHOT. MARKS ON GUIDE INDICATED THAT FISH ONLY ENTERED GUIDE $\pm 4"$. ALSO TOP OF FISH NOT A "CLEAN" END.
1030	1400	MAKE UP 4-1/8" OD WASH PIPE - MILL AND RIH WITH BUMPER SUB, BARS AND DRILL COLLARS ON 2-7/8" EUE TUBING.
1400	1530	MAKE UP POWER SWIVEL AND CIRCULATING HEAD. TAG FISH AT 4934 FT KB.
1530	1830	MILL ON FISH WITH "METAL MUNCHER" WASHOVER SHOE $\pm 18"$ PROGRESS.
1830		S.W. S.D.F.N.

COSTS

TOTAL	10,231
CUMULATIVE	45,881

DAILY WORKOVER REPORT - BLOODWOOD 1

WELL : **WEST MEREENIE 4**
REPORT DATE : **17 MAY 1993**
CONTRACTOR : **ATCO A8**
SUPERVISOR : **R D GOOSEM**
KB - CF : **18.2 FT**
OPERATIONS (0700 HRS) : **POOH WITH FISHING ASSEMBLY**

DAY 1 - 16 MAY 1993

TIME		OPERATIONS PERFORMED
FROM	TO	
0630	0800	UNLOAD TRUCK AND LOCATE ALL EQUIPMENT. CHECK RIG AND PREPARE TO POOH.
0800	1130	POOH WITH 2-3/8" TUBING STRING.
1130	1300	MAKE UP FISHING BHA (OVERSHOT, BUMPER SUB, JARS, 6 X 4-1/8" DRILL COLLARS).
1300	1700	RIH ON 2-7/8" EUE TUBING STRING.
1700	1830	ATTEMPT TO LATCH ONTO FISH. UNSUCCESSFUL RIG UP TO WASH OVER FISH. ATTEMPT TO WASH OVER FISH. COULD NOT LATCH.
1830		SECURE WELL. S.D.F.N.

COSTS

TOTAL	8,160
CUMULATIVE	35,650

DAILY WORKOVER REPORT - WEST MEREEENIE 4

WELL : WEST MEREEENIE 4
REPORT DATE : 17 MAY 1993
CONTRACTOR : ATCO A8
SUPERVISOR : R D GOOSEMAN
KB - CF :
OPERATIONS (0700 HRS) : PREPARE TO POOH

DAY 0 - 10 - 15 MAY 1993

TIME	OPERATIONS PERFORMED
FROM TO	

MOBILISE ATCO CREW. HEAVY RAIN. CREW ARRIVED IN FIELD. THEN ROAD CLOSED.

MOVED RIG TO LOCATION AND RIGGED UP. WAIT ON WEATHER.

CIRCULATE WELL TO 2% KCL BRINE. REMOVE WELLHEAD ASSEMBLY AND INSTALL NEW STACK.

TOTAL 28,170
CUMULATIVE 28,170