

**HALLIBURTON****CEMENTING AND/OR SPECIAL TOOLS  
SERVICE REPORT**ATTACH TO  
INVOICE No. 59 209HALLIBURTON DISTRICT  
Grande PrairieJOB DATE 1985 02 20  
YEAR MONTH DAY

OWNER, OPERATOR OR HIS AGENT STATES THE WELL IS IN GOOD CONDITION FOR THE SERVICE JOB TO BE PERFORMED AND SUBMITS THE FOLLOWING DATA.

CUSTOMER <b>Arnco Industries Limited</b>			FIELD OR AREA <b>Cameron Hills</b>				WELL NO. AND LEASE <b>Arnco et al Cameron Hills</b>			
CALLED OUT <b>16:00</b>	ON LOCATION <b>24:00</b>	JOB STARTED <b>06:25</b>	JOB COMPLETED <b>07:00</b>	DATE TIME	PROVINCE <b>N.W.T.</b>	LSD <b>L-80</b>	SEC	TWP	RANGE	MERIDIAN <b>W</b>

TYPE OF JOB <input checked="" type="checkbox"/>	WELL OR HOLE DATA										PRODUCTS	
	SURFACE	INTERMEDIATE	PRODUCTION	LINER	SQUEEZE	PLUG	PUMP	PRESSURE TEST	OTHER	EQUIPMENT	QUAN	
HOLE DATA: SIZE <b>444.5 mm</b>		TOTAL DEPTH <b>60 m</b>		TYPE MUD		VISC.		DENSITY		BASKETS		
CASING, TUBING OR LINER DATA: NEW <input checked="" type="checkbox"/>		SIZE <b>339.7 mm</b>		kg/m <b>81.1</b>		GRADE		DEPTH <b>60.75 m</b>		CENTRALIZERS <b>2</b>		
USED <input type="checkbox"/>		SIZE <b>mm</b>		kg/m <b>mm</b>		GRADE		DEPTH <b>m</b>		CLAMPS		
PERFORATIONS: FROM <b>m</b> TO <b>m</b>		FROM <b>m</b> TO <b>m</b>		FROM <b>m</b> TO <b>m</b>		FROM <b>m</b> TO <b>m</b>		FROM <b>m</b> TO <b>m</b>		FLOAT COLLAR <b>1</b>		
WASH FLUID TYPE: <b>H<sub>2</sub>O</b> VOL. <b>1.6 m<sup>3</sup></b>		DISPLACING FLUID TYPE: <b>H<sub>2</sub>O</b> VOL. <b>3.86 m<sup>3</sup></b>		DISPLACING FLUID <b>mm</b>		RETURNS <b>mm</b>		FLOAT SHOE <b>1</b>				
TEMP <b>°C</b> MIXING <b>°C</b> DATA <b>WATER</b>		SLURRY <b>°C</b>		DISPLACING FLUID <b>°C</b>		RETURNS <b>°C</b>		GUIDE SHOE				

**EQUIPMENT**

PACKER				CEMENT HEAD			
TYPE	SIZE	mm	TOP PLUG TYPE	Wooden			CONTINUOUS <input type="checkbox"/> KNOCK OFF <input type="checkbox"/> SWAGE <input checked="" type="checkbox"/>
DEPTH SET	m TAIL PIPE	m	BOTTOM PLUG TYPE				OTHER

**CEMENT DATA**

TONNE	API CLASS	BRAND	BULK OR SACKED	CEMENT BLEND	ADDITIVES TYPE AND PERCENT	kg/m <sup>3</sup>	m <sup>3</sup> /tonne
11.6	G	Inland	Bulk	Oilwell	2% CaCl <sub>2</sub>	1895	0.76

HALLIBURTON OPERATOR A. Trost CUSTOMER REP. \_\_\_\_\_**TREATING LOG**

CHART POSITION	TIME	RATE m <sup>3</sup> /min	VOLUME PUMPED IN m <sup>3</sup>			PRESSURE MPa		REMARKS
			STAGE	TOTAL	IN FORMATION	TUBING	CASING	
1	06:25	1.0		1.6			0.5	Pump H <sub>2</sub> O wash.
2	06:27							Stop.
3	06:29	0.8					0.5	Start mixing cement.
4	06:40			8.0				Stop. Drop plug.
5	06:52	0.5					0.5	Start displacement.
6	07:00			3.86				Stop. Bump plug 3 MPa over.
7	07:02							Bleed off pressure. Floats
								holding. 2.0 m <sup>3</sup> returns cement.

