COMPANY:	NORTHWEST NATURAL GAS
WELL:	OM-32-22-65
FIELD:	CALVIN CREEK GAS STORAGE
COUNTY:	COLUMBIA
STATE:	OREGON
Schlumberger	PLATFORM EXPRESS ARRAY INDUCTION-SP BHC SONIC

COUNTY: COLUMBIA	
Field: CALVIN CREEK GAS STORAGE	
Location: 1980 FS & 1980 FW SEC 32	
API: OM-32-22-65	
Date: 15-Jun-1998 Time: 12:00	
Schlumberger	PLATFORM EXPRESS ARRAY INDUCTION-SP BHC SONIC

Run No.	1		
Depth Driller	1700		
Depth Logger	1700		
Bottom Logged Interval	1700		
Top Log Interval	0		
Casing Driller Size @ Depth	9 5/8 @ 0		
Casing Logger Size @ Depth	9 5/8 @ 0		
Bit Size	8 1/2		
Type Fluid in Hole	FRESH WATER		
Density / Viscosity	8.4 / 0		
PH / Fluid Loss	7.0 / 0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp.	0.0 @ 0		
Rmf @ Meas. Temp.	0.0 @ 0		
Rmc @ Meas. Temp.	0.0 @ 0		
Rm @ BHT	0.0 @ 0		
Max. Rec. Temp.	0		
Equipment Number	5-5-5		
Location	5-5-5		
Recorded By			
Witnessed By			

Run No.			
Depth Driller			
Depth Logger			
Bottom Logged Interval			
Top Log Interval			
Casing Driller Size @ Depth			
Casing Logger Size @ Depth			
Bit Size			
Type Fluid in Hole			
Density / Viscosity			
PH / Fluid Loss			
Source of Sample			
Rm @ Meas. Temp.			
Rmf @ Meas. Temp.			
Rmc @ Meas. Temp.			
Rm @ BHT			
Max. Rec. Temp.			
Equipment Number			
Location			
Recorded By			
Witnessed By			

NO ACCELERATIONS ARE OFFSHORE BASED ON INFORMATION FROM ELECTRICAL CONTRACTOR. ACCELERATIONS ARE ONSHORE BASED ON INFORMATION FROM ELECTRICAL CONTRACTOR OR ACCELEROMETER. ALL MEAS. TEMP. ARE ASSUMED TO BE THE SAME AS FORMATION TEMPERATURE UNLESS OTHERWISE STATED. ALL MEAS. TEMP. ARE ASSUMED TO BE THE SAME AS FORMATION TEMPERATURE UNLESS OTHERWISE STATED. ALL MEAS. TEMP. ARE ASSUMED TO BE THE SAME AS FORMATION TEMPERATURE UNLESS OTHERWISE STATED. ALL ELECTRICAL CONTRACTOR ACCELEROMETER INSTALLED AND ZERO ACCELERATION BASE SET ON THE RIG FLOOR. ALL ELECTRICAL CONTRACTOR ACCELEROMETER INSTALLED AND ZERO ACCELERATION BASE SET ON THE ELECTRICAL CONTRACTOR. TOWING ACCELERATION IS NOT SET FOR ELECTRICAL CONTRACTOR PACE SCHEDULE.

OTHER SERVICES:	OTHER SERVICES:
CBL	CBL
CBL	CBL
CBL	CBL
CBL	CBL
CBL	CBL
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Thank you for choosing Schlumberger!	

AC or DC 115V / 230V/ph:	
Dry run with transport & accommodation:	
Dry run or standbye, rate 1, 2 OR 3:	

Total crew time & hours on site:	

RUN 1		RUN 2	
SERVICE ORDER #		SERVICE ORDER #	
PULSE NO.		PULSE NO.	
CONTRACT ORDER #		CONTRACT ORDER #	
STARTED DEPTH:	STOP:	STARTED DEPTH:	STOP:
		ARRIVED ON SITE:	EQUIP:

EQUIPMENT DESCRIPTION

RUN 1	RUN 2
SLIM HOLE EQUIPMENT	
GR-1	
CCL-E	
TOOL NO.	
DOWNHOLE EQUIPMENT	

LEH-C
GR-A/AM
TOOL NO.
CCL-E
TOOL NO.
DIFL TOOL
TOOL NO.
ECS-GC 1008
AH-FLX
AH-FLX
AH-FLX
HILTS-DTB
HILTS-DTB
HILTS-DTB