



WELL Sawyer Rapids #1

TIME PERCENTAGE BREAKDOWN

DATE	SUN.			MON.			TUES.			WED.			THURS.			FRI.			SAT.			TOTAL	
	4/13/80			4/14/80			4/15/80			4/16/80			4/17/80			4/18/80			4/19/80				
DRILLING, ACTUAL	8	8	4	6	6	8	6	7	8	8	6	4						8	8	7	8	110	
DIRECTIONAL, REAMING																							
CONDITION MUD			4	2			2					$\frac{1}{4}$										$8\frac{1}{4}$	
CIRC - SAMPLE																							
CIRC-E LOGS																							
TRIPS					$1\frac{1}{2}$						$3\frac{1}{2}$	$1\frac{1}{2}$					4					$10\frac{1}{2}$	
LUBE RIG					$\frac{1}{2}$			$\frac{1}{2}$														1	
DEVIATION SURVEY								$\frac{1}{2}$				$\frac{1}{4}$								1		$1\frac{3}{4}$	
TEST ROPE																	4					4	
CUT-SLIP LINE																							
REPAIR RIG											2						4					6	
CORING																							
WIRE LINE LOG																							
CASING, CEMENT, ETC.														5	3	8	4						20
WAIT ON CEMENT														$1\frac{1}{2}$	5								$6\frac{1}{2}$
DRILL STEM TEST																							
FISHING & WAITING																							
DEPTH	90	110	140	157	163	218	250	366	482	569	649	678	678	678	678	678	678	760	876	1003	1056	996'	
TOTAL	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	168 hrs.	

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WELL Sawyer Rapids #1

GEOLOGISTS

TIME PERCENTAGE BREAKDOWN

DATE	SUN.			MON.			TUES.			WED.			THURS.			FRI.			SAT.			TOTAL
	4/20/80			4/21/80			4/22/80			4/23/80			4/24/80			4/25/80			4/26/80			
DRILLING, ACTUAL	7½	5	7	5	---	---	7	5½	8	7½	8	7½	8	3	8	8	8	7½	8	7½	8	134
DIRECTIONAL, REAMING						6	1															7
CONDITION MUD																						2½
CIRC - SAMPLE									2½													
CIRC-E LOGS																						
TRIPS				2¾	2	1								4½								10¼
LUBE RIG																						
DEVIATION SURVEY	½			¼						½	½		½				½					2 ¾
TEST BOPE					6															½		6½
CUT-SLIP LINE																						
REPAIR RIG		3	1			1																5
CORING																						
WIRE LINE LOG																						
CASING, CEMENT, ETC.																						
WAIT ON CEMENT																						
DRILL STEM TEST																						
FISHING & WAITING																						
DEPTH	1106	1147	1185	1214	1214	1214	1269	1333	1440	1516	1607	1683	1757	1795	1887	1947	2027	2093	2148	2213	2282	1226'
TOTAL	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	168 hrs.

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WELL Sawyer Rapids #1

GEOLOGISTS

TIME PERCENTAGE BREAKDOWN

DATE	SUN.			MON.			TUES.			WED.			THURS.			FRI.			SAT.			TOTAL
	4/27/80			4/28/80			4/29/80			4/30/80			5/1/80			5/2/80			5/3/80			
DRILLING, ACTUAL	8	7½	8	8	7½	8	5½	5¼	8	5	7¾	8	8	7½	8	8	7½	8	6½	--	8	148
DIRECTIONAL, REAMING																						
CONDITION MUD																			½			½
CIRC - SAMPLE																						
CIRC-E LOGS																						
TRIPS							2	2¾											½	5¾		11
LUBE RIG				½									½									1
DEVIATION SURVEY		½					½				¼								½			1 ¾
TEST BOPE																						
CUT-SLIP LINE																				1¾		1 ¾
REPAIR RIG										3						½				½		4
CORING																						
WIRE LINE LOG																						
CASING, CEMENT, ETC.																						
WAIT ON CEMENT																						
DRILL STEM TEST																						
FISHING & WAITING																						
DEPTH	2357	2419	2482	2544	2634	2697	2746	2791	2843	2878	2945	3003	3064	3120	3171	3221	3268	3310	3356	3370	3437	1155'
TOTAL	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	168 hrs.

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WELL Sawyer Rapids #1

TIME PERCENTAGE BREAKDOWN

DATE	SUN.			MON.			TUES.			WED.			THURS.			FRI.			SAT.			TOTAL
	5/4/80			5/5/80			5/6/80			5/7/80			5/8/80			5/9/80			5/10/80			
DRILLING, ACTUAL	8	7½	7½	8	7½	8	8	7½	7½	8	7½	8	8	8	8	6½						123½
DIRECTIONAL,																						
REAMING																						
CONDITION MUD																						
CIRC - SAMPLE																						
CIRC-E LOGS																						
TRIPS																¾	3					3¾
LUBE RIG		½			½			½			½											2
DEVIATION SURVEY			½						½							¾						1¾
TEST BOPE																						
CUT-SLIP LINE																						
REPAIR RIG																						
CORING																						
WIRE LINE LOG																						
CASING CEMENT, ETC.																						
WAIT ON CEMENT																						
DRILL STEM TEST																						
FISHING & WAITING																						
STRIKE																	5	8	8	8	8	(37)
DEPTH	3499	3563	3618	3684	3739	3793	3855	3907	3958	4002	4043	4083	4145	4187	4246	4305	4305	4305	4305	4305	4305	868
TOTAL	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	3					131 hrs.

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WELL Sawyer Rapids #1

TIME PERCENTAGE BREAKDOWN

DATE	SUN.			MON.			TUES.			WED.			THURS.			FRI.			SAT.			TOTAL
	5/11/80			5/12/80			5/13/80			5/14/80			5/15/80			5/16/80			5/17/80			
DRILLING, ACTUAL			7	8	8	8	8	7½	8	8	7½	8	8	7	8	7		4½	8	7½	8	135½
DIRECTIONAL,																						
REAMING	1½	1																				2½
CONDITION MUD																						
CIRC - SAMPLE																						
CIRC-E LOGS																						
TRIPS		3														1	8	3				15
LUBE RIG																						
DEVIATION SURVEY														½						½		1
TEST BOPE																						
CUT-SLIP LINE																						
REPAIR RIG	8	3½						½			½			½			¾					13¾
CORING																						
WIRE LINE LOG																						
CASING, CEMENT, ETC.																						
WAIT ON CEMENT																						
DRILL STEM TEST																						
FISHING & WAITING																						
DEPTH	4305	4305	4324	4361	4387	4417	4444	4477	4532	4565	4612	4688	4729	4774	4838	4883	4883	4898½	4956	5003	5076	771'
TOTAL	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	168 hrs.

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WELL Sawyer Rapids #1

TIME PERCENTAGE BREAKDOWN

DATE	SUN.			MON.			TUES.			WED.			THURS.			FRI.			SAT.			TOTAL
	5/18/80			5/19/80			5/20/80			5/21/80			5/22/80			5/23/80			5/24/80			
DRILLING, ACTUAL	8	7½	5	2	6	4							5	1½							2	41
DIRECTIONAL, REAMING																						
CONDITION MUD					1½	½																2
CIRC - SAMPLE																						
CIRC-E LOGS																						
TRIPS						3½	8		1½	6	8	8	3	5			5	8	8	5		69
LUBE RIG																						
DEVIATION SURVEY																						
TEST BOPE																						
CUT-SLIP LINE																						
REPAIR RIG		½	3	6	½			1												3	6	20
CORING																						
WIRE LINE LOG																						
CASING CEMENT, ETC.																						
WAIT ON CEMENT																						
DRILL STEM TEST																						
FISHING & WAITING								7	6½	2				1½	8	8	3					36
DEPTH	5121	5176	5197	5206	5231	5260	5260	5260	5260	5260	5260	5260	5267	5267	5267	5267	5267	5267	5267	5267	5267	191'
TOTAL	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	168 hrs.

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COMPANY NORTHWEST EXPLORATION COMPANY

**WESTERN GEO-ENGINEERS**

PAGE NO. 8

WELL Sawver Rapids #1

GEOLOGISTS

TIME PERCENTPAGE BREAKDOWN

DATE	SUN.			MON.			TUES.			WED.			THURS.		FRI.			SAT.			TOTAL	
	5/25/80			5/26/80			5/27/80			5/28/80			5/29/80		5/30/80			5/31/80				
DRILLING, ACTUAL				3	7	8	8	7½	8	6												47½
DIRECTIONAL, REAMING																						
CONDITION MUD													1									1
CIRC - SAMPLE																						
CIRC-E LOGS																						
TRIPS		3		3						2	2		4½	6								20½
LUBE RIG								½														½
DEVIATION SURVEY																						
TEST BOPE																						
CUT-SLIP LINE																						
REPAIR RIG	8	5	8	2	1																	24
CORING																						
WIRE LINE LOG													2	8	8	8	1					27
CASING ,CEMENT, ETC.																						
WAIT ON CEMENT																						
DRILL STEM TEST																						
FISHING & WAITING										6	8		2½									16½
DEPTH	5267	5267	5267	5288	5383	5434	5526	5565														
TOTAL	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	1	295'
																						137 hrs.

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