Samples from Lone Star Producing Companys' Government Well 1X-3, drilled in the SE1/4SW1/4 (560 feet N/S, 2,430 feet E/W) of sec 3, T 12 N, R 107 W, Sweetwater County, Wyoming Niobrara Formation

Kelly Bushing elevation 7,039 feet

Kelly Busning el				Yield o	of produ	ct	Specific	Properties of			
			Weight percent					r ton	gravity	spent shale	
Sample nu	ımber	Run			Spent	Gal +	1 /		of oil at	Tendency to	
Laramie	Their	No.	0i1	<u>W</u> ater	shale	loss	0i1 <u>1</u> /	Water	_60°/60° F	coke	Remarks
SBR74-16021-32 1	2,270-12,390						No Oil				
	.2,390-12,400						C				
	.2,400-12,440						No Oil				
	.2,440-12,460						Trace				
	.2,460-12,470						No Oil				
	.2,470-12,480						Trace				
	.2,480-12,490						Ъ				
	.2,490-12,500						Trace				
	.2,500-12,530						No Oil				
	.2,530-12,540						Trace				
SBR74-16048 1	2,540-12,550						Ъ				
SBR74-16049-50 1							Trace				
SBR74-16051 1	.2,570-12,580						No Oil				
SBR74-16052 1	.2,580-12,590						Trace				
SBR74-16053 1	2,590~12,600						Ъ				
SBR74-16054-62 1	2,600-12,690						Trace				
SBR74-16063 1	2,700-12,710						Ъ				
SBR74-16064 1	2,710-12,720						Trace				
SBR74-16065 1	2,720-12,730						c				
SBR74-16066 1	2,730-12,740						Trace				
SBR74-16067-9 1	2,740-12,770						Ъ				
SBR74-16070 1	2,770-12,780						Trace				
SBR74-16071 1	2,780-12,790						b				
SBR74-16072 1	2,790-12,800						Trace				
SBR74-16073 1	2,800-12,810						No Oil				
SBR74-16074-5 1	2,810-12,830						Trace				
SBR74-16076-7 1	2,830-12,850						No Oil				
SBR74-16078-80 1							Ъ				
	2,880-12,920						Trace				
	2,920-12,930						Ъ				

See footnote at end of table.

Drill cutting samples received August 13, 1974; assays made on air-dried samples

Samples from Lone Star Producing Companys' Government Well 1X-3 (con.)

Kelly Bushing elevation 7.039 feet

Kelly Busning elevation / .009 leet					Yield	of produ	ict	Specific	Properties of		
			Weight percent				Gal pe	rton	gravity	spent shale	
Sample	number	Run			Spent	Gas +	1 /		of oil at	Tendency to	
Laramie	Their	No.	Oil	Water	sha1e	loss	0i1 ¹ /	Water	60°/60° F	coke	Remarks
SBR74-16086-7	12,930-12,950						Trace		-		
SBR74-16088-9	0 12,950-12,980						ъ				
SBR74-16091-2	12,980-13,000						Trace				
SBR74-16093-4	13,000-13,020						No Oil				
SBR74-16095-7	13,020-13,050						Trace				
SBR74-16098-9	13,050-13,070						Ъ				
SBR74-16100	13,070-13,080						Trace				
SBR74-16101	13,090-13,100						Trace				
SBR74-16102-5	13,100-13,140						No Oil				
SBR74-16106-8	13,140-13,170						Trace				
SBR74-16109-1	0 13,170-13,190						b				
SBR74-16111	13,190-13,200						Trace				
SBR74~16112-3	13,200-13,220						No Oil				
SBR74-16114-5	13,230-13.250						Trace				
SBR74-16116	13,250-13,260						Ъ				
SBR74-16117-9	13,260-13,290						Trace				
SBR74-16120-4	13,300-13,350						No Oil				
SBR74-16125-6	13,350-13,370						Trace				
SBR74-16127	13,380-13,390						Trace				
SBR74-16128-3	2 13,400-13,450						No Oil				
SBR74-16133-6	13,450-13,490						Ъ				
SBR74-16137	13,490-13,500						Trace				
SBR74-16138-9	13,500-13,520						No Oil				
SBR74-16140-1	13,520-13,540						Trace				
SBR74-16142	13,540-13,550						No Oil				
SBR74-16143-5	0 13,550-13,630						Trace				
SBR74-16151	13,630-13,640						c				
SBR74-16152	13,640-13,650						No Oil				
SBR74-16153-7	13,650-13,700						Trace				
SBR74-16158-6	2 13,700-13,750						No Oil				

See footnote at end of table.

Drill cutting samples received August 13, 1974; assays made on air-dried samples

Samples from Lone Star Producing Companys' Government Well 1X-3 (con.)

Kelly Bushing elevation 7,039 feet

Kerry Bushing elevation 7,009		1000			Yield	of produ	ct	Specific	Properties of		
			W	eight pe	rcent		Gal per ton		gravity	spent shale	
Sample 1	number	Run			Spent	Gas +	1 /		of oil at	Tendency to	
Laramie	Their	No.	0i1	Water	shale	loss	$0i1^{\frac{1}{2}}$	Water	60°/60° F	coke	Remarks
SBR74-16163	13,750-13,760		•				Trace				
SBR74-16164-6	13,760-13,790						No Oil				
SBR74-16167-72	13,790-13,850						Trace				
SBR74-16173	13,850-13,860						Ъ				
SBR74-16174-7	13,860-13,900						Trace				
SBR74-16178-81	13,900-13,940						No Oil				
SBR74-16182-5	13,940-13,980						Trace				
SBR74-16186	13,980-13,990						No Oil				
SBR74-16187	13,990-14,000						Trace				
SBR74-16188-93	14,000-14,060						No Oil				
SBR74-16194-7	14,060-14,100						Trace				
SBR74-16198-212	2 14,100-14,250						No Oil				
SBR74~16213	14,250-14,260						Trace				
SBR74-16214-6	14,260-14,290						No Oil				
SBR74-16217	14,290-14,300						Trace				
SBR74-16218-23	14,300-14,360						No Oil				
SBR74-16224	14,360-14,370						Trace				
SBR74-16225-33	14,370-14,460						No Oil				
SBR74-16234	14,460-14,470						Trace				
SBR74-16235-6	14,470-14,490						No Oil				
SBR74-16237-9	14,500-14,530						No Oil				
SBR74-16240	14,530-14,540						Trace				
SBR74-16241-2	14,540-14,560						No Oil				
SBR74-16243	14,570-14,580						No Oil				
SBR74-16244	14,580-14,590						Trace				
SBR74-16245-89	14,590-15,040						No Oil				
SBR74-16290	15,040-15,050						Trace				
SBR74-16291-4	15,050-15,090						No Oil				
SBR74-15295-9	15,100-15,150						No Oil				
SBR74-16300	15,150-15,160		<u> </u>		· · · · · · · · · · · · · · · · · · ·		Trace				

See footnote at end of table.

Drill cutting samples received August 13, 1974; assays made on air-dried samples

Samples from Lone Star Producing Companys' Government Well 1X-3 (con.)

Kelly Bushing elevation 7,039 feet

				Yield of product						Properties of	
			Weight percent				Gal per ton		gravity	spent shale	
Sample number		Run			Spent	Gas +	1/		of oil at	Tendency to	
Laramie	Their	No.	Oi1	Water	shale	loss	$0i1^{\pm\prime}$	Water	60°/60° F	coke	Remarks
SBR74-16301 SBR74-16302-24	15,160-15,170 4 15,170-15,400	97831	0.4	2.0	96.6	1.0	1.0a No Oil	4.8	-	None	

^{1/&}quot;a"--indicates specific gravity estimated as 0.92. Oil yields were estimated by a rapid test-tube method: "No Oil," Trace," "b"--less than 1 gal oil/ton, "c"--1 to 3 gal oil/ton.