

[Spectrographic analyses by A. T. Myers and P. J. Dunton; chemical analyses by C. A. Horr. The elements are arranged according to their periodic chemical families (Moellar, 1952). Elements which were detected, but not listed in the table are: 0.x- Ce, 0.x- Nd, and 0.00x- Y in sample 10; 0.00x- Y in 19 and 21; 0.000x- Sc in 22; 0.0x Ce, 0.0x- Nd, and 0.000x Sc in 27; and 0.000x- Sc in 28. Arsenic was detected in only three samples, although it probably was present in all samples and was lost during ashing because of its volatility. eU (equivalent uranium) is defined as "the ratio of the net counting rate of a sample to the counting rate per percent of a uranium standard in equilibrium with all of its disintegration products, both measured under similar geometry" (Rosholt, 1954). x+, x., and x.- mean 4.64 to 10, 2.15 to 4.64, and 1.0 to 2.15 respectively; 0.x+, 0.x, and 0.x- mean 0.460 to 1.0, 0.215 to 0.464, and 0.10 to 0.215 respectively, and so forth.]

Sample	Well			Location			Producing interval (depth in feet)	Stratigraphic unit	Ash (percent of sample)	Spectrographic analyses																											Chemical analyses				
	No. (pl. 1)	Name	Company	Section	Block	Survey				County in Texas	Na	K	Cu	Ag	Ca	Mg	Sr	Be	Ba	Zn	Al	Ga	B	Ti	Zr	Si	Sn	Pb	V	As	Cr	Mo	Mn	Fe	Ni	Co	La	U	eU		
1		Mudget 1	Phillips Petroleum	85	46	H and TC	Hutchinson	2980-2985	"Panhandle lime"	0.084	x.-	0	0.00x	0	.x	0.0x+	0.0x-	0	0.000x	0	0.0x	0	0.000x	0.0x-	0.0x	0	0	0.x-	0	0.000x	0	0	0.0x-	0.0x	0	0	0.0400	0.024			
2		do	do	85	46	H and TC	do	2980-2985	do	0.086	x.+	0	.x	Tr	.x+	.x	.x-	.000x-	.0x-	x.+	.x-	.00x-	0	.0x-	.x	.x-	0	.00x	.00x	.0x	x.+	x.-	.00x	0	0	.0820					
3		Yake 7	do	35	47	H and TC	do	2835-2850	do	.143	x.+	0	.0x-	0	x.-	.x-	.0x-	0	.000x	.0x-	.0x	0	.00x-	0	.00x-	.0x	0	0	.x-	0	.000x	0	0	.x-	.0x+	0	0	.0014	.008		
4		Mitchell 2	Kerr-McGee Oil Industries Inc.	76	46	H and TC	do	2812-2884	"Panhandle lime" ¹	.344	xx.	.x	.00x	0	x.	x.-	.x	0	.000x-	0	.0x+	0	.00x-	.00x	.x-	0	0	0	.000x	0	0	.0x	.0x+	.000x+	.00x	0	0	.0010	.002		
5		Childers 2	Phillips Petroleum	9½		Z. C. Collier	do	3040-3110	"Panhandle lime"	.026	xx.-	0	.0x-	0	x.	x.-	.x-	0	.000x+	0	.x-	0	.0x-	.00x-	.00x+	.x	0	0	.x	0	.00x-	.000x	0	.x-	.x	.000x-	0	0	.0010	.002	
6		Wittenberg 32	Kerr-McGee Oil Industries Inc.	12	X02	H and TC	do	2930-2965	"Panhandle lime" or "Brown dolomite"	.005	x.+	0	.0x+	0	.x+	.x-	.0x	0	.00x-	0	.x+	0	0	.0x+	.00x+	x.	.00x+	.0x+	.x+	.x+	.00x+	.00x-	0	x.-	.x+	.0x+	0	0	.0050		
7	858b	Sanford A-5	Colorado Interstate Gas	8	3	AB and M	Carson	2778	"Brown dolomite"	.170	x.-	.0x+	.00x	0	x.	x.-	.0x-	0	.0x-	0	.x	.000x-	.00x	.0x+	.00x	x.	0	.00x	.x	0	.00x-	0	.0x-	x.	.x-	.000x	0	0	.0010		
8		Dugan 3	Phillips Petroleum	72	46	H and TC	Hutchinson	2843-2860	do	.206	.0x	0	.00x	0	.00x	.000x	0	0	.00x	0	.00x	0	0	0	0	0	0	.0x-	0	.000x	0	0	.00x	.0x-	.00x	0	0	.0028	.003		
9		Cockerell 9	Kerr-McGee Oil Industries Inc.	14	B3	D and SE	do	2780-2880	"Brown dolomite" ¹	.015	x.	.x	.x-	0	x.	x-	.0x	0	.000x	.0x-	.x-	.00x-	.0x	.0x-	.0x-	x.	.x+	.0x	.x	0	.0x-	.00x	.x-	xx.	.x	.0x-	0	0	.0010		
10		Pitts 16	do	7	M21	TCRR	do	3035-3058	do ¹	.004	x.+	0	.x	0	.x+	.x+	.0x+	0	.0x+	.x+	.x+	0	0	.0x+	.00x+	x.-	.x+	.x+	.x+	0	.00x+	.00x-	.0x+	x.+	.x+	.00x+	.x	0	0	.0010	
11		Jasper 2	do	24	M23	TCRR	do	3142-3185	do ¹	.016	xx.-	.x	x.-	.000x	x.	x.-	.x-	0	.00x	.0x+	.x-	0	0	.0x	.00x+	.x	.0x	.x-	.x+	.x-	.0x-	.00x-	.0x	xx.	.x+	.x-	0	0	.0010		
12		Wittenberg A-12	Stanley K. Feinberg	2	J	TWNG	do	Unknown	do ¹	.005	xx.	0	.00x	0	x.-	.x-	.x-	0	.00x	.x	.x-	0	.0x-	.00x	.x+	.x-	0	0	.00x	.000x	0	.x-	.x	.x	.00x	0	0	.0008	.005		
12		B-2	do	2	J	TWNG	do	do	do ¹	.511	x.+	0	.00x+	0	.x	.x-	.0x-	0	.000x	0	.0x-	0	0	0	0	0	0	.0x-	0	.000x	0	0	.x-	.0x-	0	0	.0007	.000			
14		C-2	do	2	J	TWNG	do	do	do ¹	.0006	xx.	0	.00x	0	.x+	.x+	.x-	0	.000x+	0	.x-	0	.00x	.00x-	.00x+	.x	0	0	.0x-	.00x	0	.x-	.x-	.00x-	0	0	.0026	.002			
15		Gary 4	Phillips Petroleum	26	M23	TCRR	do	3240-3270	"Brown dolomite"	.008	xx.	0	.0x-	0	x.	x.	.x-	0	.00x	0	.x-	0	.00x-	.00x	.0x-	.x	0	.000x	.x	0	.00x	.00x-	.00x	x.-	.x	.00x	0	0	.0010	.003	
16		Hazel 2	do	4	X02	H and OB	do	2955-3040	do	.003	xx.	0	.0x+	0	x.	x.	.x-	0	.00x	0	.x	0	.00x	.0x-	.0x-	.x	0	.00x	.x	0	.00x	0	.00x	x.-	.x	.00x-	.00x+	0	0	.0010	
17		Ryan A-1	Kerr-McGee Oil Industries Inc.	1	M24	T and C	do	3195-3226	do ¹	.101	0	0	.00x	0	.0x	.000x	0	0	.00x+	0	.00x	0	0	.00x	0	x.-	0	0	0	0	0	0	.0x	.0x	0	0	.0011	.007			
18		Lucas 2	Phillips Petroleum			N½ 112 acres, J. W. Swisher	do	3202-3250	do	.001	xx.	0	.00x+	0	x.	.x	.00x	0	.00x-	0	.x-	0	0	.0x-	.00x	.0x+	0	0	.0x-	.000x	0	0	.x-	.x-	.000x-	0	0	.0006	.002		
19		Ebling 7	do	18	M16	AB and M	do	3178-3206	do	.005	xx.	0	.0x-	0	x.	x-	.0x	0	.0x-	0	.x	.00x-	0	.0x-	.0x-	x.-	.0x-	0	.0x-	0	.x-	.x-	xx.-	x.-	.00x	0	0	.0010	.006		
20		Wells 1-B	Kerr-McGee Oil Industries Inc.	153	3	TT and NO	Moore	Unknown	Unknown	10.0	x.-	.x-	.0x	0	x.-	.x	.0x-	0	.00x-	0	.x-	.00x	0	.00x+	.000x	x.-	.0x-	.00x	.00x-	.x	.00x-	.00x-	.x	xx.	.0x-	.00x-	0	0	0		
21	623	Thompson B-2	Colorado Interstate Gas	17	44	H and TC	do	2845-3115	"Brown dolomite"	3.0	.x	.x	.0x-	0	x.	x.	.00x	0	.00x+	0	.x	0	.00x-	.0x	.00x-	x.	0	.00x	.00x	0	.00x	0	.x-	x.	.00x	.00x+	0	0	.0030		
22		Johnson T-1	Phillips Petroleum	3		Rockwell School lands	Gray	2575-2610	do	.0011	x.+	.x	.0x+	.000x	x.	x.-	.0x+	.000x-	.0x-	.x-	.00x-	.0x	.x-	.0x	x.	.00x-	.x	.x-	0	.0x-	.0x-	.0x	x.	x.	.0x+	0	0	.0038			
23		Lea 10	Kerr-McGee Oil Industries	72	38	GH and H	Sherman	Unknown	Unknown	.12	xx.	.x-	.x-	0	.x+	.x-	.x-	.000x	Tr	0	.0x	0	.00x	0	.x	0	0	.00x-	.00x	0	0	.0x	.0x+	.000x	0	0	0	0			
24	588d	Berneta 1	do	29	21	CSS	Hartley	5714-5728	"Granite wash"	.001	xx.	0	.x-	.000x-	.x-	.x	.x	0	.00x+	0	.x-	0	.0x+	.0x	.000x-	x.	.000x-	.00x-	.0x	0	.00x+	.00x-	.00x+	.x-	.x-	.0x	0	0	.0010		
25		do	do	29	21	CSS	do	5714-5728	do		xx.	.x	.0x	Tr.	x.	x-	.x-	0	.00x	0	.x	0	.0x	.0x	0	x.-	.00x-	.00x-	0	.00x	0	.00x+	x.-	.00x-	0	0	0	0			
26	588c	Berneta 4	do	29	21	CSS	do	5770-5778	do	.0039	xx.	.x-	.x	.00x	x.	x.	.x-	.000x-	.0x	.x-	.x+	Tr	.0x-	.0x	.00x+	x.	.00x+	.x	.x	0	.0x-	.00x	.0x+	xx.-	.x+	.0x-	.0x-	0	0	.0016	
27		do	do	29	21	CSS	do	5782-5788	do	.0028	xx.	.x-	.x	Tr.	x.-	.x+	.x-	.x-	.0x	.0x-	.x-	Tr	.0x+	.0x+	.0x-	x.	.00x+	.x+	.x+	0	.0x-	.00x+	.0x	x.	x.	.0x-	0	0	.020		
28	588b	Bivins 1-GG	Phillips Petroleum	29	21	CSS	do	5716-5860	do	.0007	x.	0	.x+	.000x-	x.	x.-	.0x	0	.x-	.x+	0	.0x	.0x	.00x			.x	.x	x.-	x.	.00x	.00x+	.0x+	x.	x.-	.0x-	0	0			

¹ May or may not be the correct stratigraphic unit; is either "Panhandle lime" or "Brown dolomite."

² Collected from sludge pit.

³ Oil extracted from composite sample of drill cuttings with soxlet extractor. The sampling interval does not represent the gas-producing interval.

⁴ Residues from filtration of sample 24.