

GEOLOGICAL DEPARTMENT
SOUTHWESTERN GAS COMPANY
INDEPENDENCE, KANSAS

25-31-10 E

Company **Denman Bros. and Frazier**

S. T. R. **25-31-10**
County **Elk**
State **Kansas**
Lease and Well No. **C. H. Key #1**

Contractor **Denman Bros.**

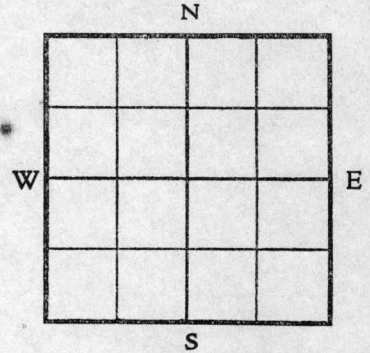
Drilling Commenced **Oct. 27, 1925.** Drilling Completed

Initial Production

Initial Rock Pressure

Location **330' N. and 700' E. of SW corner of NW $\frac{1}{4}$.**

Casing **10" 425'**
8" 715'



Driller's Record of Formations

lime shells	20	20	sand	25	1165
lime	15	35	1 1/2 bailers water		
shale	3	38	lime	35	1200
lime	30	68	shale	30	1230
shale dark	10	88	gas est. 50,000 cu. ft. @ 1250'		
red rock	5	93	lime	40	1270
lime	7	100	sand	44	1314
red rock	20	120	sandy shale	2	1316
shale light	40	160	lime brown hd.	35	1349
lime hard	7	167	shale top of		
shale	13	180	cap	7	1356
lime	15	195	lime hard	60	1416
shale	53	248	shale dark	2	1418
sand soft	45	293	lime	10	1428
shale	32	325	shale dark	35	1463
lime	22	347	9 bailers water		
shale black	5	352	shale soft lt.	46	1509
lime hard	3	355	lime	8	1517
shale light	7	362	shale	8	1525
red rock	15	377	lime	3	1528
shale	8	385	shale	23	1551
sand	25	410	sand show of oil		
shale	20	430		38	1589
red rock	27	457	shale	19	1608
shale	13	470	lime	33	1641
lime	3	473	shale black	18	1659
shale	17	490	2 1/2 bailers water		
sand	15	505	lime show oil	26	1685
shale	105	610	shale black	7	1692
lime	5	615	lime	6	1698
shale	10	625	shale dark	70	1768
lime	5	630	show oil at 1768-94		
shale	23	653	sandy shale	26	1794
lime	2	655	shale	46	1840
sand and shale	60	715	2 bailers water		
shale	175	890	per hr.		
lime	15	905	sand soft light	55	1945
shale shelly	45	950	red rock	12	1892
lime	15	965	shale light	5	1897
shale shelly	175	1140	over		

mpg

Company: Denman Brothers and Stephen Frazier

Farm: C. R. Key No. 1 Sec. 25 T. 31 R. 10 E.

Initial Production: 300,000 ft. gas Location: C S.L. SW NW

Casing Record:

10" 425'
6 5/8" 1316'
5 3/16" 1975'

County: Elk

Total Depth: 2035

Formation

Thickness Depth

Formation	Thickness	Depth	Formation	Thickness	Depth
lime shelly	20	20	sand 1 1/2 BW	25	1165
lime	15	35	lime	35	1200
shale	3	38	shale	30	1230
lime	30	68	100,000 C. Ft. Gas		
shale dark	5	73	lime	40	1270
lime	5	78	sand 1260		1314
shale dark	10	88	shale	3	1317
red rock	5	93	lime dark hard	32	1349
lime	7	100	shale	7	1356
red rock	20	120	lime	60	1416
shale light	40	160	shale dark	2	1418
lime	7	167	lime	10	1428
shale	13	180	shale dark	35	1463
lime	15	195	sandy shale light	46	1509
shale	53	248	lime hard	8	1517
sand soft broken	45	293	shale	8	1525
shale	32	325	lime	3	1528
lime 9 BW	22	347	shale	52	1580
shale black	5	352	sand	9	1589
lime hard	3	355	show of oil Peru sand		
shale	7	362	slate	19	1608
red rock	15	377	lime	33	1641
shale	8	385	shale black	18	1659
lime	25	410	lime	26	1685
shale set 10' 425	20	430	show of oil		
red rock	27	457	shale black	7	1692
shale light	13	470	lime	6	1698
lime	3	473	shale B	70	1768
shale	17	490	sand broken	26	1794
sand 2 1/2 BS	15	505	Bartlettville)		
shale	105	610	show of free oil washed and good.		
lime	5	615	shale	46	1840
shale	10	625	sand	5	1845
lime	5	630	shale light sandy	35	1880
shale	23	653	red rock	12	1892
lime	2	655	shale dark	5	1897
sand and shale	60	715	shale dark	23	1920
water increased 2 B			red rock	3	1923
shale	175	890	shale dark	62	1985
lime	15	905	reduced hole		1975
shale shelly	45	950	lime Miss.	60	2035
lime	15	965	gas at 1995--250,000		
shale shelly	175	1140	Completed well Nov. 23, 1925; show		
			in as a gas well Nov. 24, 1925,		
			about 300,000 ft.		

25-31-10E
Shannon

20" 10" 425 FARM C.R. Key NO. 1 COUNTY Elk
 15 1-2 8 1-4 COMPANY Denman Bros and Stephen Frazier.
 12 1-2 6 5-8 1316 CONTRACTOR
 5 3-16 1975 COMMENCED



TOTAL DEPTH 2035 SHOT QUARTS BETWEEN
 CORRESPONDENCE REGARDING THIS WELL SHOULD BE REFERRED TO Denman Bros.,

Bedan, Kansas., ELEVATION
 FIGURES INDICATE BOTTOM OF FORMATIONS. INITIAL PRODUCTION 300,000 ft.
 REMARKS

Formation	Depth	Formation	Depth.
lime shelly	20	lime dark and hard	1349
lime	35	shale	1356
shale	38	lime	1416
lime	68	shale dark	1418
shale dark	73	lime	1428
lime	78	shale dark	1463
shale dark	88	shale sandy light	1509
red rock	93	lime hard	1517
lime	100	shale	1525
red rock	120	lime	1528
shale light	160	shale	1580?
lime	167	sand	1589
shale	180	show of oil Peru sand	
lime	195	slate	1608
shale	248	lime	1641
sand softbroken	293	shale black	1659
shale	325	lime	1685
lime	347 9BW	SHOW OF OIL	
shale black	352	shale black	1692
lime hard	355	lime	1698
shale	362	shale black	1768
red rock	377	sand broken	1794
shale	385	Bartlesville) SHOW OF FREE OIL	
lime	410	WASHED AND GOOD.	
shale set 10 425	430	shale	1840
red rock	457	sand	1845
shale light	470	shale light sandy	1880
lime	473	red rock	1892
shale	490	shale dark	1897
sand 2 1/2 B.W.	505	shale dark	1920
shale	610	red rock	1923
lime	615	shale dark	1985
shale	625	reduced hole 5-3/16 1975	
lime	630	lime Mississippu	1995
shale	653	lime	2035
lime	655	gas at 1995. 250,000	
sand sand and shale	715		
water increased 2 B.			
shale	890	Completed well Nov 23rd, 1925	
lime	905	shot in as a gas well Nov 24th,	
shale shelly	950	1925 about 300,000 feet.	
lime	965		
shale shelly	1140		
sand 1 1/2 B.W.	1165		
lime	1200		
shale	1230		
lime 100,000 gas 1230-	1270		
sand 1260	1314		
shale	1317 set		
1316' 6" casing.			