

State Kansas County Barber

Company Gramehart-Miller Oil Co. Well No. 1

Farm Lenkner (Ott)

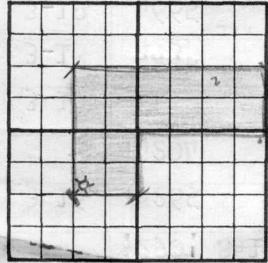
Survey

Block No. Sec. 24 Twp. 33 Range 14W

Co-Ord. Elev. 1856 K.B.

C. SW NE SW

1853 OF
1851 GL



- 1/4 - Lion Oil Co.
- 1/4 - Chicago Group
- 1/4 - George Haun
- 1/4 - Gramehart-Miller Oil

Rig 1

NOTE: Show Sketch of Lease and Well Location in Above Space

990 Ft. from N. Line Ft. from S. Line

Ft. from W. Line 990 Ft. from E. Line

Date	Depth	
		3-1-54 MIRT: Spudded
3-2		8 5/8" @ 230' W/200 sx.cem. 6 c.c., 2 gel. Plug down @ 4:30 am
		Lost circulation, Plug down-9:10 am
3-3	1135	Drilling
3-4	2193	Drilling
3-5	2542	Making a trip
3-6	2804	Drilling
3-7	3250	Drilling
3-8	3580	Down since 3:00 this morning

Date	Depth	- with motor trouble.
3-9	3520	Down - motor trouble
3-10	3807	Down - motor trouble
3-11	3476	Down - motor trouble
3-12	3703	Drilling
3-13	3840	Drilling
3-15	D.S.T. 3879-3928	Open 1 hr., Fair-weak blow. Rec. 150' Mud. I.F.P. 79, F.F. 90 B.H.P. 1245
	3836	Elgin Sand (-1980)
	4019	Heebner (-2174) (-2163)
	4056	Douglas (-2200)
	D.S.T. 4053-90	Open 1 hr., Cl. 20" ^{fair} Rec. 290' Salt ^{MDK} Water. BHP-1340.
3-16	4265	Drilling
	4204	Lansing (-2348)
3-17	4419	Drilling
3-18	4538	Making a trip
3-19	4665 ⁴⁶⁵⁰	Drilling ^{Marmaton (-2794)}
3-20	4710	Drilling
	D.S.T. 4684-4701	Open 1 hr., Cl. 20". Rec. 70' Hvy GC & Sl. OCM & 60' Very hvy O&GCM, 3365' in drill pipe. BHP-405
3-22	4747	Mississippi ^{cat} (-2891)
	4819	Drilling

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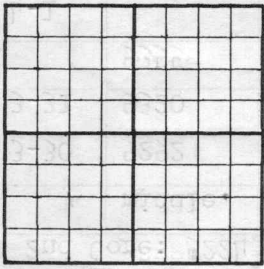
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Ft. from N. Line

Ft. from S. Line

Ft. from W. Line

Ft. from E. Line

Date	Depth	
		D.S.T. 4756-73 Op. 1hr., Cl. 20".
	V. Gd B/ Throughout.	Gas to surface - 8". Est. flow 75,000 cfg
	Rec 62' GCM IF-105, FF-152	BHP 1785#.
		D.S.T. 4775-4800. Op 1 hr. ^{Cl. 20"} Gas to surface
		in one min. Est. 3,020,000 CFG. Rec. "
		small amt. distillate. BHP - 1760#. IF-FF-670*
		D.S.T. 4801-4830 Op. 1hr., Cl. 20". Rec. 30'
		mud, no show. BHP - 0
3-23	4877	Drilling

Date	Depth	705663 705675
3-25	5060	Cir. for top of Viola
	4889	Kinderhook (-3033)
	5022	Chattanooga (-3166)
	5070	Viola (-3214)
3-26	D.S.T. 5062 880 -80	Op. 1 hr. ^{cl 30'} Wk. blow-22".
	N.S. Rec. 15'	Mud. BHP 10'
	5106	Drilling
3-27	5172	Drilling
3-29	5198	Simpson (-3342)
	5232	Drilling.
1st Core: 5210-24 $\frac{1}{2}$. 14 $\frac{1}{2}$ ' W/100% Rec. Last 6" white sand.		
2nd Core: 5224 $\frac{1}{2}$ -5237 6 $\frac{1}{2}$ ' Rec. lost some in middle.		
3-30	5292	Drilling
3-31	5320	Arbuckle (-3464)
	5355	R.T.D. coming out to run log.
4-1		Set 5160' 5 $\frac{1}{2}$ " W/150 sx.cem.
		Plug down at 4:30 this morning.
4-6		Moving in Cable Tool Unit.
4-7		Going to log & perf.
4-8		Perf. Going into Miss.
Perf.	5116-22	18 s/ft. sub 4 BPH. L-N Plug @ ⁵¹¹⁰ 4865
Perf.	5082-88	18 holes. sub 2 BPH. Set L-N Plug @ 4865

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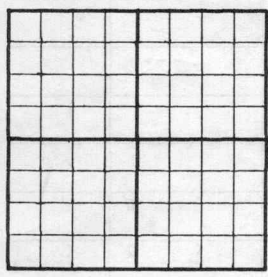
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Co-Ord. _____ Elev. _____



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Ft. from N. Line

Ft. from S. Line

Ft. from W. Line

Ft. from E. Line

Date	Depth	
	(42 shots)	<i>Gas 200,000 cfd</i>
Perf. <u>4813-27</u>	<u>1st Treatment-1000 Acid - Est.</u>	
	<u>4 M. Gas.</u>	
	<u>2nd Treatment-4000 Acid - Est.</u>	
	<u>8 M. Gas.</u>	<u>BTU - 1073</u>
<u>Dec. 1954</u>	<u>Cities Service Gas Co. tested --</u>	
	<u>Gas. 15,000,000 cfd</u>	
	<u>Hooked up 3-26-55</u>	
<u>12-29-55</u>	<u>Perf. 4772-4800.</u>	<u>See page 4</u>

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Block No. Sec. 24 Twp. 33S Range 14W

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SW NE SW

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(To perforate additional zone in order to increase reserve estimate for allowable purposes.)

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Ft. from N. Line

Ft. from S. Line

Ft. from W. Line

Ft. from E. Line

Date	Depth	Present perms 4813-27
12-27	To perf	this morning.
12-28	Were unable to get production packer down.	Trying to set packer.
12-29	Set packer @ 4808.	Perf 4772-4800 w/112 ^s . Preparing to frac both zones (incl 4813-27)
12-30	Frac'd w/15,000# sd, 10,000 gals	Petro-frac, 150# J-82. Total load 479 bbls. Went in 15 BPM.

Date	Depth	705675
		Top pressure-750#. 705663
		Ran tubing. To start testing this morning.
		Swb 46 bbls before well kicked off.
		Tbg press-400# (pinched down)
		First 1½ hrs fl 20 BFPH. Tbg press-800#. In 3 hrs was making 5-6 BFPH (gravity 2°) 900# tbg pressure and 600# csg press. App 1/2" choke.
12-31		In 12 hrs after started flowing was making 5 mil cfg (3/4" choke, 700# tbg press; 1200# csg press.
		Completed 12-31-55 @ 7,340,000 cf thru 2". Csg press-1000#; tbg press-30#. S.I. press-1350#.
		(Estimated 15 mil op fl)
1-13-56		Cities Service Gas Company tested 25,611 Mcf/d open flow
		Shut-In Pressure - 1261#
		At end of test (4 hrs.)-1150#.
		Cities Service ltr dd 1-25-56 advised
		Open fl increased from 8,743 Mcf and Reserve increased from 1,445,280 Mcf to 2,407,740 Mcf. Allowable will be over two mil/day.
8-13-56		S.I.P. - 680 [#] on tbg - 780 [#] on csg