

31-25-5 E³¹
25-5

Murphy # 69 Sect. 31 Tp.25, R 5 E. Butler Co. Kansas.

Lime	50	50
Shale 5 B water	35	85
Red rock	10	95
Slate	40	145
Lime	5	150
Shale black	20	170
Lime	4	174
Shale	24	198
Lime 2 15 1/2" casing	2	200
Red Rock	10	210
Shale	15	225
Lime	10	235
Shale	5	240
Shale	60	300
Lime	8	308
Shale	22	330
Lime	4	334
Shale	89	423
Lime	18	450 error
Shale	10	460
Lime	40	500
Shale	20	520
Lime	6	526
Shale	44	570
Sand water cave	15	585
Shale	45	630
Red rock	10	640
Lime	5	645
Shale	10	655
Lime	5	660
Shale	5	665
Lime	7	672
shale	10	682
Red rock	8	690
Shale	15	705
Sand	17	722
Slate 12 1/2" Casing	8	730
Lime	10	740
Shale	30	770
Lime	15	785
Shale	15	800
Lime	25	825
Shale	12	837
Lime	50	887
Shale	33	920
Lime	10	930
Shale	45	975
Lime	25	1000
Shale	10	1010
Lime	15	1025
Shale	75	1100
Lime	40	1140
Shale	10	1150
Lime Gas showing	20	1170
Shale	15	1185
Lime	20	1205
Shale	20	1225
Lime	150	1375

Shale	25	1400
Lime	50	1450
Lime	40	1490
Shale sandy	65	1555
Sand water hole F	20	1575
Lime	5	1580
Shale	5	1585
Lime 10" casing	5	1590
Lime	5	1595
Slate	160	1755
Lime 25	25	1780
Sand water hole full	20	1800
Lime	100	1900
Shale	530	2030
Lime	120	2150
Sand	12	2162
Shale	83	2195
Lime 6-5/8 csng	7	2202
Shale	70	2272
Shale	93	2365
Lime	8	2373
Shale	67	2440
Lime	10	2450
Red Rock	25	2475
Lime sandy 5-3/160	4	2479
Lime	6	2485
Sand, green	17	2502
Sand Oil	15	2517

Well started Feb. 20, 1917
finished July 13, 1917.

W. L. Stryker Est.

223373

GEOLOGICAL DEPARTMENT
SOUTHWESTERN GAS COMPANY

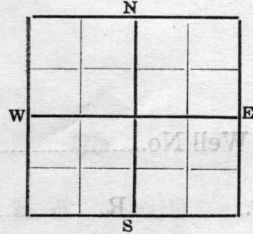
INDEPENDENCE, KANSAS

LOG OF WELL

Company Farm Murphy Well No. 69
 State Kansas County Butler S. 51 T. 25 R. 5 E
 Commenced Drilling 2-20-17 Completed 7-15-17 Elev.
 Shot Qts. from to I. P. R. P.
 Casing: 200' 15 1/2" Casing: 750' 12 1/2" Casing: 1590' 10"
 Casing: 2202' 6-5/8" Casing: 2479' 5-3/16" Casing:
 Tubing Caged at Packer at
 Contractor

lime	50		
shale	85	shale	770
red rock	95	lime	785
slate	145	shale	800
lime	150	lime	825
shale	170	shale	857
shale	198	lime	887
lime	200	shale	920
red rock	210	lime	950
shale	225	shale	975
lime	235	lime	1000
shale	300	shale	1010
lime	308	lime	1025
shale	330	shale	1100
shale lime	334	lime	1140
shale	423	shale	1150
lime (error)	450	lime gas showing	1170
shale	460	shale	1185
lime	500	lime	1205
shale	520	shale	1225
lime	526	lime	1375
shale	570	shale	1400
sand	585	lime	1490
shale	630	shale sandy	1555
red rock	640	sand	1575 HPW
lime	645	lime	1580
shale	655	shale	1585
lime	660	lime	1590
shale	665	lime	1595
lime	672	slate	1755
shale	682	lime	1780
red rock	690 (690)	sand	1800 HPW
shale	705	lime	1900
sand	722	shale	2030
slate	730	lime	2150
lime	740	sand	2162
		shale	2195 (over)

LOCATION



..... Ft. from North Line of qr. sec.
 Ft. from South Line of qr. sec.
 Ft. from East Line of qr. sec.
 Ft. from West Line of qr. sec.

TEST

Through	Pitot Tube Test of 192		 192
In Tubing	Used	Mercury	Water	Open Gauge Test Shows
	Reading			
In Casing	Vol.Cu.Ft.		 Lbs.

line 2202
 shale 2365
 line 2373
 shale 2440
 line 2450
 red rock 2475
 line sandy 2479
 line 2485
 sand green 2502
 sand 2517 oil

Contractor

LOG OF WELL

Company..... Farm Murphy Well No. 69State Kansas County Butler S. 31 T. 25 R. 5E.Commenced Drilling Feb. 20, 1917 Completed July 13, 1917 Elev. _____

Shot _____ Qts. from _____ to _____ I. P. _____ R. P. _____

Casing: _____ Casing: _____ Casing: _____

Casing: _____ Casing: _____ Casing: _____

Tubing _____ Caged at _____ Packer at _____

lime	50	50	lime	50	887
shale	35	85	shale	33	920
red rock	10	95	lime	10	930
slate	40	145	shale	45	975
lime	5	150	lime	25	1000
shale black	20	170	shale	10	1010
lime	4	174	lime	15	1025
shale	24	198	shale	75	1100
lime 15½" Casing	2	200	lime	40	1140
red rock	10	210	shale	10	1150
shale	15	225	lime GAS showing	20	1170
lime	10	235	shale	15	1185
shale	5	240	lime	20	1205
shale	60	300	shale	20	1225
lime	8	308	lime	150	1375
shale	22	330	shale	25	1400
lime	4	334	lime	50	1450
shale	89	423	lime	40	1490
lime (error)	18	450	shale sandy	65	1555
shale	10	460	sand water hole full	20	1575
lime	40	500	lime	5	1580
shale	20	520	shale	5	1585
lime	6	526	lime 10" Casing	5	1590
shale	44	570	lime	5	1595
sand water cave	15	585	slate	160	1755
shale	45	630	lime	25	1780
red rock	10	640	sand H.F.W.	20	1800
lime	5	645	lime	100	1900
shale	10	655	shale	130	2030
lime	5	660	lime	120	2150
shale	5	665	sand	12	2162
lime	7	672	shale	33	2195
shale	10	682	lime 6-5/8" Casing	7	2202
red rock	8	690	shale	70	2272
shale	15	705	shale	93	2365
sand	17	722	lime	8	2373
slate 12½" Csg.	8	730	shale	67	2440
lime	10	740	lime	10	2450
shale	30	770	red rock	25	2475
lime	15	785	lime sandy 5-3/16" C.	4	2479
shale	15	800	lime	6	2485
lime	25	825	sand green	17	2502
shale	12	837	sand OIL	15	2517