

Johnson County, KS
Well: Gardner Holding D1
Lease Owner: D Z

Town Oilfield Service, Inc.
(913) 837-8400

Commenced Spudding:
12-02-2013

WELL LOG

Thickness of Strata	Formation	Total Depth
30	soil/clay	30
13	shale	43
5	lime	48
3	shale	51
16	lime	67
9	shale	76
8	lime	84
9	shale	93
25	lime	118
12	shale	130
19	lime	149
7	shale	156
57	lime	213
20	shale	233
9	lime	242
18	shale	260
5	lime	265
5	shale	270
8	lime	278
47	shale	325
25	lime	350
6	shale	356
23	lime	379
5	shale	384
5	lime	389
5	shale	394
6	lime	400
116	shale	516
7	sand	523
50	shale	573
3	lime	576
4	shale	580
2	lime	582
6	shale	588
8	lime	596
17	shale	613
3	lime	616
3	shale	619
10	lime	629
30	shale	659

Short Cuts

TANK CAPACITY

BBLS. (42 gal.) equals $D^2 \times .14 \times h$

D equals diameter in feet.

h equals height in feet.

BARRELS PER DAY

Multiply gals. per minute x 34.2

HP equals BPH x PSI x .0004

BPH - barrels per hour

PSI - pounds square inch

TO FIGURE PUMP DRIVES

* D - Diameter of Pump Sheave

* d - Diameter of Engine Sheave

SPM - Strokes per minute

RPM - Engine Speed

R - Gear Box Ratio

*C - Shaft Center Distance

D - $RPM \times d$ over $SPM \times R$

d - $SPM \times R \times D$ over RPM

SPM - $RPM \times D$ over $R \times D$

R - $RPM \times D$ over $SPM \times d$

BELT LENGTH - $2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$

* Need these to figure belt length

TO FIGURE AMPS: $\frac{WATTS}{VOLTS} = AMPS$

746 WATTS equal 1 HP

Log Book

Well No. 01

Farm Gardner Holdings

KS Johnson
(State) (County)

28 14 22
(Section) (Township) (Range)

For D+Z Exploration
(Well Owner)

**Town Oilfield
Services, Inc.**
1207 N. 1st East
Louisburg, KS 66053
913-710-5400

Gardner Holdings Johnson County

KS State; Well No. 01

Elevation 1023

Commenced Spuding 12-2 20 13

Finished Drilling 12-4 20 13

Driller's Name Chad Weaver

Driller's Name

Driller's Name

Tool Dresser's Name Cole Holcom

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name OS

28 14 22

(Section) (Township) (Range)

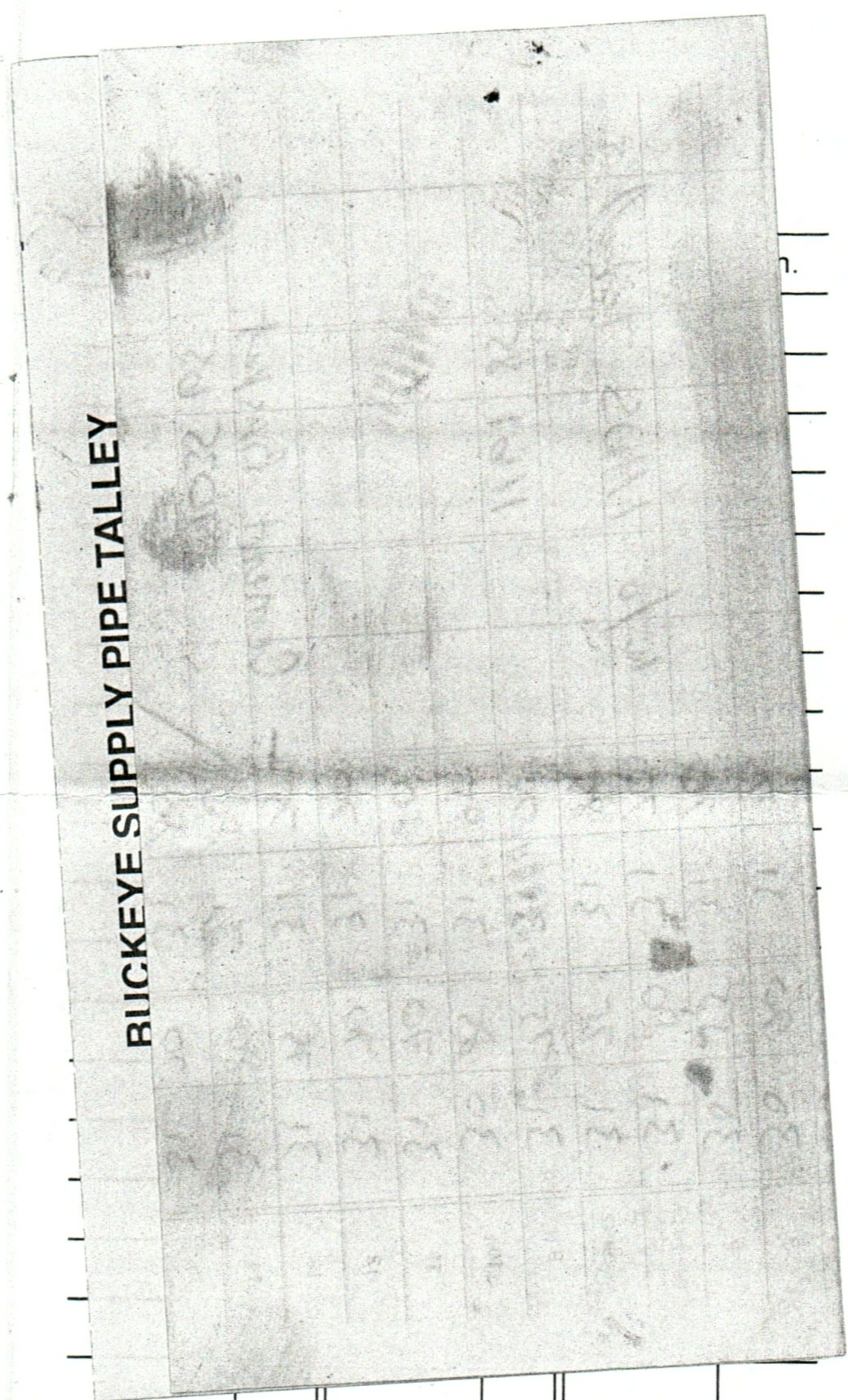
Distance from S line, 2620 ft.

Distance from E line, 2980 ft.

3 Sacks
CASING AND TUBING
RECORD

10" Set _____ 10" Pulled _____
7 7/8" Set 24 8" Pulled _____
6 1/4" Set _____ 6 1/4" Pulled _____
4" Set _____ 4" Pulled _____
2 7/8" Set 1161.85 2" Pulled _____

1035.65 Cement Basket
1200 TO



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16	Lime	67	
9	shale	76	
8	Lime	84	
9	shale	93	
25	Lime	118	
12	shale	130	
19	Lime	149	
7	shale	156	
57	Lime	213	
20	shale	233	
9	Lime	242	
18	shale	260	
5	Lime	265	
5	shale	270	
8	Lime	278	
47	shale	325	
25	Lime	350	
6	shale	356	
23	Lime	379	
5	shale	384	
5	Lime	389	
5	shale	394	
6	Lime	400	
			Harder

Thickness of Strata	Formation	Total Depth	Remarks
116	shale	516	
7	sand	523	gray, no oil
50	shale	573	
3	Lime	576	
4	shale	580	
2	Lime	582	
6	shale	588	
8	Lime	596	
17	shale	613	
3	Lime	616	
3	shale	619	
10	Lime	629	
30	shale	659	red bed - 632'
2	Lime	661	
5	shale	666	gray, no oil
19	sand	685	
10	sandy shale	695	
41	shale	736	
5	sand	741	odor, very little oil
3	Broken sand	744	
110	shale	854	
3	sandy Lime	857	with oil, good bleeding
6	sand	863	oil sand
2	Broken sand	865	with oil
4	sandy shale	869	
50	shale	919	
11	sand	930	gray-white sand, no oil

