

ORIGINAL

ORIGINAL  
SIDE ONE

12-18-90

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

Operator: License # 4748

Name: A & A Discovery, Inc.

Address P.O. Box 156

City/State/Zip Hill City, KS 67642

Purchaser: \_\_\_\_\_

Operator Contact Person: Darrel Anderson

Phone (913) 674-2768

Contractor: Name: Murfin Drilling Company

License: 6033

Wellsite Geologist: Richard B. Bell, Hill City, KS 67642

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  Temp. Abd.

Gas  Inj  Delayed Comp.

Dry  Other (Core, Water Supply, etc.)

If OWD: old well info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Drilling Method:

Mud Rotary  Air Rotary  Cable

12-12-90 12-18-90 12-18-90

Spud Date Date Reached TD Completion Date

API NO. 15- 065-22, 613 0000

County Graham

Appr SW/4 Sec. 15 Twp. 7S Rge. 23W East West

490' Ft. North from Southeast Corner of Section

4030 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

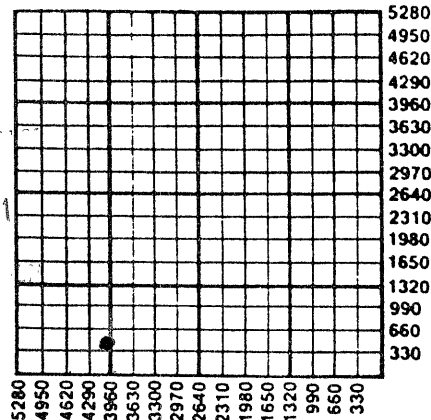
Lease Name Graham County Leasing Well # B-1

Field Name Wildcat

Producing Formation D/A

Elevation: Ground 2375' KB 2380'

Total Depth 4034' PBDT \_\_\_\_\_



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Air II W/O

Amount of Surface Pipe Set and Cemented at 245 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**INSTRUCTIONS:** This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. **One copy of all wireline logs and drillers time log shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED.** Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature J E Goss

Title Jack E. Goss, Agent f/Operator Date 12-31-90

Subscribed and sworn to before me this 31st day of December, 19 90.

Notary Public Melanie Rau  
Melanie Rau

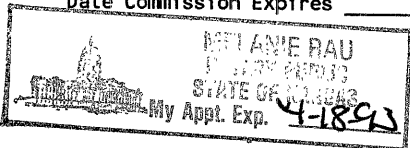
Date Commission Expires 4-18-93

**K.C.C. OFFICE USE ONLY**

F  Letter of Confidentiality Attached  
 C  Wireline Log Received  
 C  Drillers Timelog Received

**Distribution**

KCC  SWD/Rep  NGPA  
 KGS  Plug  Other  
 (Specify)



**SIDE TWO**

Operator Name A & A Discovery, Inc. Lease Name Graham County Leasing Well # B-1  
 Sec. 15 Twp. 7S Rge. 23W  East  West  
 County Graham

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets.)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy.)  
 Test # 1 - attached  
 Test #2 - attached  
 Test #3 - attached

Formation Description		
Name	Top	Bottom
Anahydrite	2070	
Base "	2103	
Topeka	3420	
Heebner	3625	
Toronto	3652	
Lansing	3666	
Base-K.C.	3865	
T.D.	4031	
Dry and abandoned		

**CASING RECORD**  New  Used  
 Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8-5/8"		245	60/40 Poz	180	3% cc, 2% ge

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth

**TUBING RECORD** Size Set At Packer At Liner Run  Yes  No

Date of First Production none -D/A Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)  
**METHOD OF COMPLETION**  Open Hole  Perforation  Dually Completed  Commingled  
 Other (Specify) \_\_\_\_\_

ORIGINAL

# CHENEY TESTING COMPANY, INC.

P. O. Box 367

HILL CITY, KANSAS 67642

## DRILL-STEM TEST DATA

Company	A. & A. Discovery Inc.	Test No.	3
Client Name & Number	Graham Co. Leasing B#1	Zone Tested	Lansing
Company Address	P.O. Box 156, Hill City, Kan. 67642	Date	12-17-90
Company Rep.	Richard Bell	Tester	Gary Pevoreaux
Drill Contractor	Murfin Drlg. Co. #3	Elevation	2380 K.B.
Location: Sec. 15 Twp. 7S Rge. 23W	Co. Graham State Kan.	Est. Feet of Pay	

Recorder No. 13224	Type AK-1	Range 4350	PSI	Recorder No. 10290	Type AK-1	Range 4250	PSI
Recorder Depth 3867	Clock # 30410			Recorder Depth 3862	Clock # 22993		
1) Initial Hydrostatic Mud	1912		PSI	Tool Open Before I.S.I.	30		Mins.
2) First Initial Flow Pressure	52		PSI	Initial Shut-in	30		Mins.
3) First Final Flow Pressure	52		PSI	Flow Period	30		Mins.
4) Initial Shut-in Pressure	106		PSI	Final Shut-in	30		Mins.
5) Second Initial Flow Pressure	54		PSI	Top Choke Size	1"	Hole Size	7 7/8"
6) Second Final Flow Pressure	54		PSI	Bottom Choke Size	3/4"	Rubber Size	6 3/4"
7) Final Shut-in Pressure	80		PSI	Tool Open @	3:12 P.M.		
8) Final Hydrostatic Mud	1892		PSI	Blow Remarks	1st open; Weak blow 1/2"-1/4"		
Temperature	115°			Dead in 20 minutes.			
Mud Weight	9.5	Viscosity	42	2nd open; No blow.			
Mud Loss	7.4 c.c.						
Interval Tested	3800-3870						
Anchor Length	70'						
Top Packer Depth	3795						
Bottom Packer Depth	3800						
Total Depth	3870						
Well Pipe Size	4 1/2 EX.H.			Well chlorides; 4,000 P.P.M.			
Well Pipe I. D. Collars 2.25 Ft. Run	380			Rec. chlorides; 4,500 P.P.M.			
Recovery-Total Feet	10						
Recovered	10	Feet Of	Mud w/a few heavy oil spots				
Recovered		Feet Of					
Recovered		Feet Of					
Recovered		Feet Of					
Recovered		Feet Of					
Recovered		Feet Of					
Recovered		Feet Of					
Extra Equipment							
							Price of Job

2/15/91  
FEB 15 1991

CHENEY TESTING COMPANY, INC.

P. O. Box 367 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	A. & A. Discovery Inc.	Test No.	2
Well Name & Number	Graham Co. Leasing B#1	Zone Tested	Lansing "H"
Company Address	P.O. Box 156, Hill City, Kan. 67642	Date	12-16-90
Company Rep.	Richard Bell	Tester	Gary Pevoteaux
Tractor	Murfin Drlg. Co. #3	Elevation	2380 K.B.
Location: Sec. 15 Twp. 7S Rge. 23W Co. Graham State Kan.		Est. Feet of Pay	
Recorder No. 13224 Type AK-1 Range 4350 PSI		Recorder No. 10290 Type AK-1 Range 4250 PSI	
Recorder Depth 3799 Clock # 30410		Recorder Depth 3794 Clock # 22993	
(a) Initial Hydrostatic Mud 1897 PSI		Tool Open Before I.S.I. 30 Mins	
(b) First Initial Flow Pressure 17 PSI		Initial Shut-in 30 Mins	
(c) First Final Flow Pressure 21 PSI		Flow Period 30 Mins	
(d) Initial Shut-in Pressure 1008 PSI		Final Shut-in 45 Mins	
(e) Second Initial Flow Pressure 21 PSI		Top Choke Size 1" Hole Size 7 7/8"	
(f) Second Final Flow Pressure 23 PSI		Bottom Choke Size 3/4" Rubber Size 6 3/4"	
(g) Final Shut-in Pressure 1056 PSI		Tool Open @ 7:25 P.M.	
(h) Final Hydrostatic Mud 1833 PSI		Blow Remarks 1st open; Weak blow, 1/2" - 1 1/4" in water.	
Temperature 114°		2nd open; Weak blow, 1/4" in water.	
Mud Weight 9.5 Viscosity 42			
Mud Loss 8.0 c.c.			
Interval Tested 3773-3802			
Anchor Length 29'			
Top Packer Depth 3768			
Bottom Packer Depth 3773			
Total Depth 3802			
Well Pipe Size 4 1/2 EX.H.		Well chlorides; 4,000 P.P.M.	
Pipe I. D. Collars 2.25 Ft. Run 380		Rec. chlorides; 5,000 P.P.M.	
Discovery-Total Feet 45			
Recovered 45 Feet Of Mud w/oil specs. Thin layer of oil at top of tool. Good odor.			
Recovered _____ Feet Of _____			
Recovered _____ Feet Of _____			
Recovered _____ Feet Of _____			
Recovered _____ Feet Of _____			
Recovered _____ Feet Of _____			
Equipment _____		Price of Job _____	

2/15/91  
FEB 15 1991

# CHENEY TESTING COMPANY, INC.

P. O. Box 367

HILL CITY, KANSAS 67642

ORIGINAL 15-065-22613-0000

## DRILL-STEM TEST DATA

Company <u>A. &amp; A. Discovery Inc.</u>	Test No. <u>1</u>
Well Name & Number <u>Graham Co. Leasing B#1</u>	Zone Tested <u>Lansing</u>
Company Address <u>P.O. Box 156, Hill City, Kan. 67642</u>	Date <u>12-16-90</u>
Company Rep. <u>Richard Bell</u>	Tester <u>Gary Pevoteaux</u>
Contractor <u>Murfin Drlg. Co. #3</u>	Elevation <u>2380 K.B.</u>
Location: Sec. <u>15</u> Twp. <u>7S</u> Rge. <u>23W</u> Co. <u>Graham</u> State <u>Kan.</u>	Est. Feet of Pay _____

Recorder No. 13224 Type AK-1 Range 4350 PSI  
 Recorder Depth 3744 Clock # 30410  
 (A) Initial Hydrostatic Mud 1873 PSI  
 (B) First Initial Flow Pressure 36 PSI  
 (C) First Final Flow Pressure 86 PSI  
 (D) Initial Shut-in Pressure 1244 PSI  
 (E) Second Initial Flow Pressure 119 PSI  
 (F) Second Final Flow Pressure 191 PSI  
 (G) Final Shut-in Pressure 1223 PSI  
 (H) Final Hydrostatic Mud 1833 PSI  
 Temperature 115°  
 Mud Weight 9.5 Viscosity 40  
 Fluid Loss 8.0 c.c.  
 Interval Tested 3687-3747  
 Anchor Length 60'  
 Top Packer Depth 3682  
 Bottom Packer Depth 3687  
 Total Depth 3747  
 Drill Pipe Size 4½ EX.H.  
 Wt. Pipe I. D. Collars 2.25 Ft. Run 380

Recorder No. 10290 Type AK-1 Range 4250 PSI  
 Recorder Depth 3712 Clock # 22993  
 Tool Open Before I.S.I. 30 Mins.  
 Initial Shut-in 45 Mins.  
 Flow Period 30 Mins.  
 Final Shut-in 45 Mins.  
 Top Choke Size 1" Hole Size 7 7/8"  
 Bottom Choke Size 3/4" Rubber Size 6 3/4"  
 Tool Open @ 4:48 A.M.  
 Blow Remarks 1st open; Fair blow, slow in-  
crease to 8" in water.  
2nd open; Weak to fair blow, 1"-5" in wtr.  
 Well chlorides; 4,000 P.P.M.  
 Rec. chlorides; 28,000 P.P.M.

Recovery-Total Feet 360  
 Recovered 120 Feet Of Drlg. Mud  
 Recovered 240 Feet Of M.W. (18% Mud 82% Wtr.)  
 Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_  
 Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_  
 Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_  
 Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_  
 Extra Equipment \_\_\_\_\_ Price of Job \_\_\_\_\_

2/15/91  
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ORIGINAL 15-065-22613-00-00  
MURFIN DRILLING CO.

WICHITA, KANSAS

COMPANY AFA Discovery Inc FARM Graham County Leasing WELL NO B-1  
 SEC.      TWP.      RGE.      LOC.      COUNTY Graham STATE Kansas  
 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2 X 11 SIZE PUMP LINERS 5 1/2 X 1 1/4 LENGTH STROKE 14  
 DATE 12-14-90 PAGE NO. ANHY

DEPTH	DRILLING TIME			REMARKS
	BEGAN	ENDED	ACTUAL TIME	
21 00				
01		57	3	
02		59	2	
03		401	2	- base 2103
04		2	1	
05		3	1	
06				
07				
08				
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48				
49				
50				

DEPTH	DRILLING TIME			REMARKS
	BEGAN	ENDED	ACTUAL TIME	
20 50				
51	223	24	1	
52		1/2	1/2	
53		25	1/2	
54		26	1	
55		27	1	
56		1/2	1/2	
57		28	1/2	
58		1/2	1/2	
59		29	1/2	
60		30	1	
61		1/2	1/2	
62		31	1/2	
63		32	1	
64		33	1	
65		34	1	
66		1/2	1/2	
67		35	1/2	
68		36	1	
69		37	1	
70		38	1	- top 2070
71		41	3	
72		43	2	
73		46	3	
74		48	2	conn
75	52	59	2	
76		57	3	
77		59	2	
78		3:01	2	
79		4	3	
80		7	3	
81		9	2	
82		12	3	
83		14	2	
84		17	3	
85		19	2	
86		21	2	
87		23	2	
88		26	3	
89		28	2	
90		36	2	
91		33	3	
92		35	2	
93		37	2	
94		40	3	
95		42	2	
96		45	3	
97		47	2	
98		49	2	
99		52	3	
21 00		54	2	

2/15/91  
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15-065-22613-00-00

# MURFIN DRILLING CO. INAI

WICHITA, KANSAS

COMPANY AEA Discovery FARM Graham Co. Leasing WELL NO 18-1  
 SEC. TWP. RGE. LOC. COUNTY Graham STATE Kansas  
 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2 x 11 SIZE PUMP LINERS 5 1/2 LENGTH STROKE 14  
 DATE 12-15-90 PAGE NO. 1

DEPTH	DRILLING TIME			REMARKS
	BEGAN	ENDED	ACTUAL TIME	
00				
01				
02				
03				
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05				
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11				
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50				

DEPTH	DRILLING TIME			REMARKS
	BEGAN	ENDED	ACTUAL TIME	
3250				
51	1:02	1/2	1/2	
52		3	1/2	conn. Jet.
53	25	26	1	
54		1/2	1/2	
55		27	1/2	
56		1/4	1/4	
57		1/4	1/4	
58		1/4	1/4	
59		28	1/4	
60		1/2	1/2	
61		29	1/2	
62		30	1	
63		31	1	
64		32	1	
65		33	1	
66		35	2	
67		37	2	
68		38	1	
69		40	2	
70		41	1	
71		42	1	
72		43	1	
73		1/2	1/2	
74		44	1/2	
75		45	1	
76		46	1	
77		47	1	
78		48	1	
79		49	1	
80		50	1	
81		52	2	
82		53	1	
83		54	1	conn
84	2:00	1	1	
85		2	1	
86		3	1	
87		5	2	
88		7	2	
89		9	2	
90		11	2	
91		13	2	
92		15	2	
93		17	2	
94		18	1	
95		20	2	
96		22	2	
97		23	1	
98		24	1	
99		25	1	
33 00		26	1	

2/15/91  
 FEB 15 1991

ORIGINAL

MURFIN DRILLING CO. 15-065-22613-00-00  
WICHITA, KANSAS

COMPANY A. A. Discovery FARM Graham Co. Leasing WELL NO B-1  
SEC. TWP. RGE. LOC. COUNTY Graham STATE Kansas  
SIZE HOLE 2 3/8 DRILL PIPE 4 1/2 x 14 SIZE PUMP LINERS 5 1/2 LENGTH STROKE 14  
DATE 12-15-90 PAGE NO. 2

DEPTH	DRILLING TIME			REMARKS
	BEGAN	ENDED	ACTUAL TIME	
3300				
01	2:26	27	1	
02		29	2	
03		31	2	
04		33	2	
05		36	3	
06		38	2	
07		40	2	
08		42	2	
09		43	1	
.....10		45	2	
11		46	1	
12		48	2	
13		49	1	
14		51	2	conn
15	56	57	1	
16		58	1	
17		59	1	
18		1/2	1/2	
19		3:00	1/2	
.....20		2	2	
21		4	2	
22		5	1	
23		7	2	
24		8	1	
25		9	1	
26		10	1	
27		11	1	
28		12	1	
29		14	2	
.....30		16	2	
31		17	1	
32		18	1	
33		20	2	
34		21	1	
35		22	1	
36		23	1	
37		25	2	
38		26	1	
39		28	2	
.....40		30	2	
41		32	2	
42		34	2	
43		36	2	
44		37	1	
45		39	2	
46		40	1	conn
47	46	48	2	
48		49	1	
49		51	2	
50		52	1	

DEPTH	DRILLING TIME			REMARKS
	BEGAN	ENDED	ACTUAL TIME	
50				
51		53	1	
52		54	1	
53		56	2	
54		57	1	
55		58	1	
56		59	1	
57		4:01	2	
58		3	2	
59		5	2	
.....60		7	2	
61		9	2	
62		12	3	
63		14	2	
64		16	2	
65		19	3	
66		21	2	
67		23	2	
68		25	2	
69		27	2	
.....70		29	2	
71		31	2	
72		33	2	
73		35	2	
74		37	2	
75		38	1	
76		40	2	conn
77	47	48	1	
78		49	1	
79		50	1	
.....80		51	1	
81		52	1	
82		53	1	
83		54	1	
84		55	1	
85		56	1	
86		57	1	
87		59	2	
88		5:01	2	
89		2	1	
.....90		4	2	
91		6	2	
92		8	2	
93		9	1	
94		10	1	
95		11	1	
96		13	2	
97		15	2	
98		16	1	
99		18	2	
39... 00		20	2	

2/15/91  
FEB 15 1991



# MURFIN DRILLING CO.

WICHITA, KANSAS

ORIGINAL

15-065-22613-00-00

COMPANY A & A Discovery FARM Graham Co. Leasing WELL NO B-1  
 SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ RGE. \_\_\_\_\_ LOC. \_\_\_\_\_ COUNTY Graham STATE Kansas  
 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2 X 14 SIZE PUMP LINERS 5 1/2 LENGTH STROKE 14  
 DATE 12-15-90 PAGE NO. 3

DEPTH	DRILLING TIME			REMARKS
	BEGAN	ENDED	ACTUAL TIME	
34 00				
01	520	22	2	
02		23	1	
03		24	1	
04		26	2	
05		27	1	
06		28	1	
07		29	1	Conn
08	34	35	1	
09		36	1	
10		37	1	
11		1/2	1/2	
12		38	1/2	
13		39	1	
14		40	1	
15		42	2	
16		44	2	
17		45	1	
18		47	2	
19		48	1	
20		49	1	
21		51	2	
22		52	1	
23		54	2	
24		56	2	
25		57	1	
26		59	2	
27		6:01	2	
28		4	3	
29		6	2	
30		8	2	
31		11	3	
32		13	2	
33		15	2	
34		18	3	
35		20	2	
36		22	2	
37		24	2	
38		26	2	Conn
39	32	33	1	
40		35	2	
41		37	2	
42		38	1	
43		39	1	
44		41	2	
45		43	2	
46		45	2	
47		47	2	
48		50	3	
49		52	2	
50		55	3	

DEPTH	DRILLING TIME			REMARKS
	BEGAN	ENDED	ACTUAL TIME	
50				
51	6:55	57	2	
52		58	1	
53		59	1	
54		7:00	1	
55		01	1	
56		02	1	
57		03	1	
58		05	2	
59		06	1	
60		08	2	
61		09	1	
62		11	2	
63		14	3	
64		16	2	
65		19	3	
66		21	2	
67		23	2	
68		25	2	
69		27	2	Conn
70	7:33	34	2	
71		36	2	
72		37	1	
73		38	1	
74		41	3	
75		42	1	
76		44	2	
77		46	2	
78		47	1	
79		49	2	
80		50	1	
81		52	2	
82		52 1/2	1 1/2	
83		53	1 1/2	
84		54	1	
85		55	1	
86		57	2	
87		59	2	
88		8:01	2	
89		03	2	
90	7:59	8:01	2	Reset Clock
91		02	1	
92		03	1	
93		05	2	
94		07	2	
95		08	1	
96		10	2	
97		11	1	
98		13	2	
99		14	1	
00		16	2	

2/15/91  
FEB 15 1991

15-065-22613-00-00

# MURFIN DRILLING CO. ORIGINAL

WICHITA, KANSAS

COMPANY ADA Discovery Inc FARM GA Co Leasing WELL NO 18-1  
 SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ RGE. \_\_\_\_\_ LOC. \_\_\_\_\_ COUNTY Graham STATE KS  
 SIZE HOLE \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ SIZE PUMP LINERS \_\_\_\_\_ LENGTH STROKE \_\_\_\_\_  
 DATE 12-15-90 PAGE NO. \_\_\_\_\_

DEPTH	DRILLING TIME			REMARKS
	BEGAN	ENDED	ACTUAL TIME	
<del>300</del> 01	8:16	17	1	CONN
02	8:22	23	1	
03		24	1	
04		25	1	
05		27	2	
06		28	1	
07		29	1	
08		31	2	
09		32	1	
35.10		34	2	
11		36	2	
12		38	2	
13		40	2	Close Hopper
14		42	3	
15		44	2	
16		46	2	
17		48	2	
18		51	3	
19		53	2	
35.20		54	1	
21		55	1	
22		57	2	
23		58	1	
24		59	1	
25		9:01	2	
26		02	1	
27		03	1	
28		04	1	
29		05	1	
35.30		05 1/2	1/2	
31		06	1/2	
32		07	1	CONN
33	9:12	13	1	
34		14	1	Wis HS
35		15	1	
36		16	1	
37		17	1	
38		18	1	
39		19	1	
35.40		21	2	
41		22	1	
42		23	1	
43		25	2	
44		27	2	
45		28	1	
46		29	1	
47		31	2	
48		33	2	
49		34	1	
35.50		35	1	

DEPTH	DRILLING TIME			REMARKS
	BEGAN	ENDED	ACTUAL TIME	
3550				
51	9:35	37	2	
52		39	2	
53		41	2	
54		43	2	
55		45	2	
56		47	2	
57		48	1	
58		50	2	
59		51	1	
35.60		52	2	
61		54	2	
62		55	1	CONN
63	10:05	06	1	
64		07	1	
65		08	1	
66		10	2	
67		11	1	
68		12	1	
69		14	2	
35.70		16	2	
71		18	2	
72		20	2	OPEN Hopper
73		22	2	
74		24	2	
75		26	2	
76		27	1	
77		28	1	
78		31	3	
79		33	2	
35.80		36	3	
81		38	2	
82		39	1	
83		40	1	
84		41	1	
85		42	1	
86		43	1	
87		45	2	
88		47	2	
89		49	2	
35.90		51	2	
91		54	3	
92		56	2	
93		59	3	CONN
94	11:04	06	2	
95		08	2	
96		11	3	
97		12	1	
98		14	2	
99		16	2	
36.00		17	1	

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15-065-22613-60-50

36255  
3205  
3420

MURFIN DRILLING CO.

WICHITA, KANSAS

COMPANY A&A Discovery Inc. FARM GH CO Leasing WELL NO 8-1  
 SEC. TWP RGE. LOC COUNTY Graham STATE K5  
 SIZE HOLE \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ SIZE PUMP LINERS \_\_\_\_\_ LENGTH STROKE \_\_\_\_\_  
 DATE 12-15-90 PAGE NO. \_\_\_\_\_

DEPTH	DRILLING TIME			REMARKS
	BEGAN	ENDED	ACTUAL TIME	
36.00				
01	11:17	19	2	
02		21	2	
03		22	1	
04		24	2	
05		25	1	
06		27	2	
07		29	2	
08		31	2	
09		32	1	
36.10		34	2	
11		36	2	
12		38	2	
13		40	2	
14		42	2	
15		43	1	
16		46	3	
17		48	2	
18		49	1	
19		51	2	
36.20		53	2	
21		55	2	
22		57	2	
23		58	1	
24		1:00	2	
25		02	2	CONN
26	12:08	09	1	
27		10	1	
28		11	1	
29		13	2	
36.30		15	2	
31		18	3	
32		20	2	
33		22	2	
34		23	1	
35		25	2	
36		27	2	
37		29	2	
38		30	1	
39		33	3	
36.40		35	2	
41		37	2	
42		39	2	
43		41	2	
44		43	2	
45		45	2	
46		47	2	
47		48	1	Close hopper
48		50	2	
49		52	2	
36.50		54	2	

DEPTH	DRILLING TIME			REMARKS
	BEGAN	ENDED	ACTUAL TIME	
36.50				
51	1:54	56	2	
52		57	1	
53		59	2	
54		1:01	2	
55		03	2	
56		05	2	CONN
57	1:07	09	2	Reset Clock
58		11	2	
59		14	3	
36.60		16	2	
61		18	2	
62		21	3	
63		22	1	
64		23	1	
65		24	1	
66		26	2	
67		28	2	
68		29	1	
69		30	1	
36.70		31	1	
71		32	1	
72		33	1	
73		34	1	
74		36	2	
75		37	1	
76		39	2	
77		41	2	
78		44	3	
79		46	2	
36.80		49	3	
81		51	2	
82		53	2	
83		55	2	
84		57	2	
85		59	2	Stop 1/24/60 dry
86	3:10	12	2	
87		15	3	
88		18	3	CONN
89	25	26	1	
36.90		29	3	
91		32	3	
92		34	2	
93		36	2	
94		38	2	
95		39	1	
96		41	2	
97		42	1	
98		44	2	
99		45	1	
37.00		48	3	

2/15/91  
FEB 15 1991

15-068-22613-00-00

# MURFIN DRILLING CO.

WICHITA, KANSAS

COMPANY AAA Discovery Inc. FARM GH Co. Leasing WELL NO B1  
 SEC.      TWP.      RGE.      LOC.      COUNTY Graham STATE KS  
 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2 SIZE PUMP LINERS 5 1/2 LENGTH STROKE       
 DATE 12-15-90 PAGE NO.     

DEPTH	DRILLING TIME			REMARKS
	BEGAN	ENDED	ACTUAL TIME	
37.00				
01	48	51	3	
02		53	2	
03		56	3	
04		58	2	
05		4:01	3	
06		02	1	
07		4	2	
08		6	2	stop 1/2 hr wet
09	5:00	2	2	
37.10		5	3	
11		7	2	
12		10	3	
13		12	2	
14		14	2	
15		15	1	
16		17	2	
17		19	2	
18		20	1	
19		22	2	Conn.
37.20	29	30	1	
21		32	2	
22		34	2	
23		35	1	
24		37	2	
25		38	1	
26		41	3	
27		45	4	
28		49	4	stop 1/2 hr wet
29	6:59	7:01	2	
37.30		5	4	
31		8	3	
32		11	3	
33		14	3	
34		17	3	
35		19	2	
36		23	4	
37		26	3	
38		30	4	
39		31	1	
37.40		35	4	
41		39	4	
42		42	3	
43		45	3	
44		47	2	
45		50	3	
46		51	1	
47		53	2	stop 1/2 hr wet
48	11:44	46	2	
49		49	2	
37.50		51	3	CONN

DEPTH	DRILLING TIME			REMARKS
	BEGAN	ENDED	ACTUAL TIME	
37.50				
51	11:57	12:00	3	open hopper
52	12:03	06	3	
53		09	3	
54		12	3	
55		15	3	
56		19	3	
57		22	4	
58		25	3	
59		28	3	
37.60		31	3	
61		34	3	
62		37	3	
63		40	3	
64		43	3	
65		46	3	
66		50	4	
67		54	4	
68		57	3	
69		1:00	3	
37.70		04	4	
71		07	3	
72		10	3	close hopper
73		13	3	
74		17	4	
75		20	3	
76		23	3	
77		26	3	
78		30	4	
79		34	4	
37.80		37	3	
81		40	3	CONN
82	1:46	47	1	
83		49	2	
84		52	3	
85		55	3	
86		58	3	
87		2:00	2	
88		03	3	
89		05	2	
37.90		07	2	
91		09	2	
92		12	3	
93		14	2	
94		17	3	
95		19	2	
96		20	1	
97		21	1	2/15/91
98		24	3	FFR 5 1991
99		26	2	
38.00		29	3	

# MURFIN DRILLING CO.

WICHITA, KANSAS

ORIGINAL

15-065-22613-00-00

COMPANY A&A Discovery Inc FARM GN Co Leasing WELL NO R-1  
 SEC. TWP RGE. LOC COUNTY Graham STATE KS  
 SIZE HOLE \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ SIZE PUMP LINERS \_\_\_\_\_ LENGTH STROKE \_\_\_\_\_  
 DATE 12-16-90 PAGE NO. \_\_\_\_\_

DEPTH	DRILLING TIME			REMARKS
	BEGAN	ENDED	ACTUAL TIME	
38 00				
01	2:29	32	3	
02		36	4	Stop 1/2 hr wet & dry
03	2:23	26	3	
04		29	3	
05		32	3	
06		35	3	
07		38	3	
08		41	3	
09		45	4	
38 10		48	3	
11		51	3	
12		54	3	CONN
13	3:00	03	3	
14		06	3	
15		9	3	
16		11	2	
17		14	3	
18		16	2	
19		19	3	
38 20		23	4	Stop 1/2 hr wet & dry
21	4:24	37	3	
22		39	2	
23		42	3	
24		44	2	
25		46	2	
26		47	1	
27		50	3	
28		53	3	
29		57	4	
38 30		5:00	3	
31		3	3	
32		6	3	
33		16	4	
34		13	3	
35		17	4	
36		20	3	Stop 1/2 hr wet & dry
37	6:27	30	3	
38		32	2	
39		35	3	
38 40		38	3	
41		41	3	
42		43	2	
43		46	3	
44		48	2	CONN
45	57	54	1	
46		56	2	
47		58	2	
48		7:01	3	
49		4	3	
38 50		7	3	

DEPTH	DRILLING TIME			REMARKS
	BEGAN	ENDED	ACTUAL TIME	
38 50				
51		10	3	
52		13	3	
53		16	3	
54		19	3	Stop 1/2 hr wet & dry
55	8:30	30	2	
56		35	3	
57		37	2	
58		39	2	
59		40	3	
38 60		45	3	
61		48	3	
62		53	4	
63		54	2	
64		57	3	
65		9:00	3	
66		01	1	
67		02	1	
68		04	2	
69		06	2	
38 70		08	2	stop 1/2 hr wet & dry
71	9:33	34	1	
72		36	2	
73		38	2	
74		39	1	
75		41	2	
76		42	1	Conn.
77	47	48	1	
78		49	1	
79		51	2	
38 80		53	2	
81		55	2	
82		56	1	
83		58	2	
84		59	1	
85		10:01	2	
86		3	2	
87		5	2	
88		7	2	
89		9	2	
38 90		11	2	
91		13	2	
92		16	3	
93		18	2	
94		22	4	
95		26	4	
96		31	5	
97		34	3	2/15/91
98		36	2	ERR R1001
99		38	2	
39 00		40	2	

15-065-22413-00-00

# MURFIN DRILLING CO.

WICHITA, KANSAS

COMPANY A.A. Discovery FARM 6th CO Leasing WELL NO B-1  
 SEC.        TWP.        RGE.        LOC.        COUNTY Cochise STATE Kansas  
 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2 X 8 SIZE PUMP LINERS 5 1/2 LENGTH STROKE 17  
 DATE 12-18-90 PAGE NO.       

DEPTH	DRILLING TIME			REMARKS
	BEGAN	ENDED	ACTUAL TIME	
39 00				
01	10:40	42	2	
02		43	1	
03		45	2	
04		46	1	
05		48	2	
06		50	2	
07		53	3	conn
08	11:00	2	2	
09		5	3	
10		9	4	
11		12	3	
12		15	3	
13		18	3	
14		21	3	
15		25	4	
16		29	4	
17		33	4	
18		36	3	
19		39	3	
20		42	3	
21		44	2	
22		46	2	
23		48	2	
24		50	2	
25		54	4	
26		57	3	
27		59	2	
28		12:01	2	
29		3	2	
30		5	2	
31		8	3	
32		11	3	
33		15	4	
34		18	3	
35		22	4	
36		24	2	
37		26	2	
38		28	2	conn
39	33	35	2	
40		39	4	
41		42	3	
42		46	4	
43		49	3	
44		52	3	51 Vis
45		55	3	9.4 WT
46		59	4	
47		1:03	4	open hopper
48		7	4	
49		11	4	
50		15	4	

DEPTH	DRILLING TIME			REMARKS
	BEGAN	ENDED	ACTUAL TIME	
39 50				
51		19	4	
52		23	4	
53		27	4	
54		30	3	
55		33	3	
56		36	3	
57		40	4	
58		44	4	
59		49	5	
60		52	3	
61		55	3	
62		58	3	
63		2:00	2	
64		3	3	
65		7	4	
66		11	4	
67		14	3	
68		17	3	
69		20	3	conn
70	25	27	2	
71		29	2	
72		31	2	
73		34	3	
74		38	4	
75		41	3	
76		45	4	
77		44	3	
78		52	4	
79		55	3	
80		57	2	
81		2:00	3	
82		2	2	
83		5	3	
84		8	3	
85		12	4	
86		15	3	
87		18	3	
88		20	2	
89		22	2	
90		25	3	
91		28	3	
92		31	3	
93		34	3	
94		37	3	
95		39	2	
96		41	2	
97		43	2	
98		46	3	2/15/91
99		50	4	FFH 51
40 00		53	3	

Phone 913-483-2627, Russell, Kansas  
 Phone 316-793-5861, Great Bend, Kansas

15-065-22613-00-00

Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843

ORIGINAL

# ALLIED CEMENTING CO., INC. N<sup>o</sup> 9681

Home Office P. O. Box 31

Russell, Kansas 67665

*New*

Date	12-12-90	Sec.	15	Twp.	7 S	Range	23 W	Called Out	6:45 PM	On Location	9:45 PM	Job Start	10:30 PM	Finish	11:00 PM
Lease	GH-CO LEASING	Well No.	# B-1		Location			Hill City 3N 2W 2N		County	GRAHAM	State	KANSAS		

Contractor	MURFIN DRG. Rig #3		
Job	SURFACE		
Well Size	12 1/4	T.D.	245'
Depth	8 5/8 20 #	Depth	245'
Well Pipe		Depth	
Shoe Joint	15'	Minimum	
Displace	14 3/4 <sup>QBL</sup>		

Owner YANE INTO  
 To Allied Cementing Co., Inc.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To A & A Discovery Inc.  
 Street PO Box #100  
 City Hill City State KANSAS 67642  
 The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.  
 x *Prof. Anderson*  
 A & A Production Lease (Morrison)

Amount Ordered 150 SK 6% 2% gel 3% CO

**EQUIPMENT**

mptrk #177	No.	Cementer	<i>Alton</i>
		Helper	<i>Will</i>
mptrk #146	No.	Cementer	
		Helper	
ilktrk #146		Driver	<i>Col</i>
		Driver	

Consisting of		
Common	90	5.25 472.50
Poz. Mix	60	2.25 135.00
Gel.	3	6.75 N/C
Chloride	4	21.00 84.00
Quickset		

DEPTH of Job	
Reference:	
	Pump TRUCK chrg. 380.00
	Plug 42.00
	2.00 Per mile 43 86.00
	Sub Total 508.00
	Tax
	Total

Handling	100.00	150.00
Mileage 43 mi	04	258.00
	Sub Total	1099.50
	Total	

Remarks:  
 Cement Did Circulate!  
*Thanks*

2/15/91  
 FEB 15 1991



483-2627, Russell, Kansas  
 316-793-5861, Great Bend, Kansas

ORIGINAL

15-065-22613-00-00

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

**ALLIED CEMENTING CO., INC.** No. 9628  
 Home Office P. O. Box 31 Russell, Kansas 67665

Date	12-18-90	Sec.	15	Twp.	7 <sup>s</sup>	Range	23 <sup>w</sup>	Called Out	3:15 P.M.	On Location	5:30 P.M.	Job Start	7:15 P.M.	Finish	10:00 P.M.	
Case	Graham County Leasing		Well No.		B-1		Location		Hill City 3N2W2N <sup>3</sup> / <sub>8</sub> E		County		Graham		State	Ks.
Contractor	Murtin Daly Co.			Rig #			3			Owner			Same			
Type Job	P & A															
Hole Size	7 <sup>7</sup> / <sub>8</sub> "		T.D.		4031'											
Csg.	8 <sup>7</sup> / <sub>8</sub> "		Depth		245'											
Log. Size			Depth													
Drill Pipe			Depth													
Tool			Depth													
Cement Left in Csg.			Shoe Joint													
Press Max.			Minimum													
Leas Line			Displace													
Ref.																

To Allied Cementing Co., Inc.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To A & A Discovery, Inc.  
 Street P.O. Box 100  
 City Hill City State Ks. 67642  
 The above was done to satisfaction and supervision of owner agent or contractor.  
 Purchase Order No. \_\_\_\_\_  
 X Deven Agan

**CEMENT**

Amount Ordered	190 sks @ 1/40 per bagel with	
Consisting of	1/4 # of floreal/sk	
Common	114 sks @ 5.25/sk	598.50
Poz. Mix	76 sks @ 2.25/sk	171.00
Gel. Chloride	7 sks @ 6.75/sk (Used 10 sks)	47.25
Quickset		
Floreal	48 # @ 1.00/1b	48.00

Sales Tax

Handling	1.00/sk (190 sks)	190.00
Mileage	2.44/sk/mi (43 mi)	326.80
Sub Total		1381.55
Total		

Floating Equipment

Thanks

2/15/91  
 FFR 15 1991

**EQUIPMENT**

No.	Cementer	Garry H. Wayne
191	Helper	
No.	Cementer	Paul D.
	Helper	
#213	Driver	
	Driver	

**DEPTH of Job**

Reference:	#9 Pumptruck-plug	\$380.00
	#13 mileage @ 2.00/mi	86.00
	1-8 <sup>7</sup> / <sub>8</sub> " dry hole plug	21.00
	Sub Total	\$487.00
	Tax	
	Total	

Remarks:

1<sup>st</sup> plug @ 2085' w/25 sks.  
 2<sup>nd</sup> plug @ 1275' w/100 sks.  
 3<sup>rd</sup> plug @ 290' w/40 sks.  
 8<sup>7</sup>/<sub>8</sub>" plug @ 40' w/10 sks to surface.  
 Plugged rat hole w/15 sks