

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

API NO. 15- 083-21408-0000 ORIGINAL
County Hodgeman
- SW - NE - NW Sec. 30 Twp. 24S Rge. 22 E/W

CONFIDENTIAL

Operator: License # 07567
Name: Jack Bowles
Address P.O. Box 3285
Edmond, Okla. 73083-3285
Purchaser: Koch Industries
Operator Contact Person: Jack Bowles
Phone (405) 348-4074
Contractor: Name: Murfin Drilling Co., Inc.
License: 30606
Wellsite Geologist: Robert Lewellyn

1090' Feet from S (circle one) Line of Section
1670' Feet from E (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, (NW) or SW (circle one)
Lease Name Schaffer Well # 2
Field Name Wildcat
Producing Formation Mississippian
Elevation: Ground 2400' KB 2405'
Total Depth 5420' PBTD 5367'
Amount of Surface Pipe Set and Cemented at 380 Feet
Multiple Stage Cementing Collar Used? X Yes No
If yes, show depth set 1647 Feet
If Alternate II completion, cement circulated from 1647
feet depth to Surface w/ 370 sx cmt.

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

Drilling Fluid Management Plan ALT 2 J 24 2-15-95
(Data must be collected from the Reserve Pit)
Chloride content 4200 ppm Fluid volume 900 bbls
Desulfuring method used Evaporation
Location of fluids disposal if hauled offsite:
Operator Name
Lease Name License No.
Quarter Sec. Twp. SEP S Rng. E/W
County Docket

RELEASED
OCT 28 1995

FROM CONFIDENTIAL

CONFIDENTIAL

If Workover/Re-Entry: old well info as follows:

Operator:
Well Name:
Comp. Date Old Total Depth
Deepening Re-perf. Conv. to Inj/SWD
Plug Back PBTD
Commingled Docket No.
Dual Completion Docket No.
Other (SWD or Inj?) Docket No.
5-18-94 5-30-94 6-30-94
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 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 geologist well report 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.

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 Jack Bowles
Title Operator Date 9-01-94
Subscribed and sworn to before me this day of September
19 94.
Notary Public Bette J. Blom
Date Commission Expires 12-29-96

RECEIVED
STATE CORPORATION COMMISSION

SEP 06 1994

CONSERVATION DIVISION
WICHITA, KANSAS

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
G Geologist Report Received
Distribution
KCC SWD/Rcp KGPA
KGS Plug Other (Specify)

Operator Name Jack Bowles Lease Name Schaffer Well # 2
 Sec. 30 Twp. 24S Rge. 22 East County Hodgeman
 West

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 Log Formation (Top), Depth and Datum Sample
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes Not Required Name Top Datum
 Cores Taken Yes No Heebner 4024
 Electric Log Run Yes No Lansing 4125
 (Submit Copy.) Mississippi 4738

List All E.Logs Run:

Dual Ind., GR-Den-Neut

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"	24#	380	60/40	210	2%Gel 3%CC
Production	7-7/8"	5 1/2"	15.5#	5409	50-50 Poz	285	
					Standard	175	

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
*Alternate II <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	0 to 1647	60-40 Poz	370	6% gel 1/4 lb. Floseal per sack

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
(4 total shots)	4744-4747	250 gals. Mud clean out	4744-47
		1000 gals 15% FENE acid	

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 7/8"	4794		
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
7/01/94				
Estimated Production Per 24 Hours	Oil 4 Bbls.	Gas Trace Mcf	Water 40 Bbls.	Gas-Oil Ratio 100 to 1+ Gravity 38 -

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Perf. Dually Comp. Casingled Other (Specify) _____

Production Interval 4744-4747

CONFIDENTIAL

RELEASED

ORIGINAL

OCT 2 6 1995

FROM CONFIDENTIAL

NOV

SEP 1

CONFIDENTIAL

DRILL STEM TEST INFORMATION

SCHAFFER NO. 2

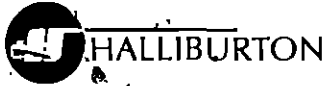
15-083-21408-0000

DST #1	4700-4755', 30-45-60-90, 2910' GIP, 150' CGCO, 45' SOCW 195 HO&GCM, FP 83/177, SIP 1361/1361 BHT 125°
DST #2	4755-4763', 30-45-120-90, 180' GIP, 5' CGO, 30' HO&GCM 60' O&GCM, 60' OCMW, 120' SW, FP 41-135, SIP 1288/1361 BHT 126°
DST #3	4770-4780', 30-45-30-45, 5' Mud, FP 20-20, SIP 31/72 BHT 125°

RECEIVED
STATE CORPORATION COMMISSION

SEP 06 1994

CONSERVATION DIVISION
WICHITA, KANSAS



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

15-083-21408-0000

BILLED ON TICKET NO.

WELL DATA

FIELD _____ SEC. 30 TWP. 21 RNG. 2 COUNTY 11 STATE 1

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM **RELEASED**
INITIAL PROD. OIL _____ BPD WATER _____ BPD GAS _____ MCFD
PRESENT PROD. OIL _____ BPD WATER _____ BPD GAS _____ MCFD
COMPLETION DATE _____ MUD TYPE **OCT 26 1995** MUD WT _____
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ FROM **CONFIDENTIAL**
MISC. DATA D. 11. 1011 TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		111.3	57	1	511	
LINER						
TUBING						
OPEN HOLE			ORIGINAL			SHOTS/FT
PERFORATIONS			ORIGINAL			
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11/11/95</u>	DATE <u>11/11/95</u>	DATE <u>11/11/95</u>	DATE <u>11/11/95</u>
TIME <u>11:00</u>	TIME <u>11:00</u>	TIME <u>11:00</u>	TIME <u>11:00</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <u>1</u>	<u>1</u>	<u>H</u>
GUIDE SHOE		
CENTRALIZERS <u>1</u>	<u>12</u>	<u>"</u>
BOTTOM PLUG		
TOP PLUG <u>1</u>	<u>1</u>	<u>"</u>
HEAD		
PACKER <u>1</u>	<u>1</u>	<u>"</u>
OTHER <u>1</u>	<u>1</u>	<u>"</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D. J. ...</u>	<u>400</u>	<u>11/11/95</u>
<u>T. H. ...</u>	<u>1111</u>	<u>"</u>
<u>H. ...</u>	<u>1111</u>	<u>"</u>
<u>"</u>	<u>1111</u>	<u>"</u>
<u>"</u>	<u>1111</u>	<u>"</u>
<u>"</u>	<u>1111</u>	<u>"</u>
<u>"</u>	<u>1111</u>	<u>"</u>

CONFIDENTIAL

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. °API
DISPL. FLUID _____ DENSITY _____ LB/GAL. °API
PROP. TYPE _____ SIZE _____ LB.
PROP. TYPE _____ SIZE _____ LB.
ACID TYPE _____ GAL _____ %
ACID TYPE _____ GAL _____ %
ACID TYPE _____ GAL _____ %
SURFACTANT TYPE _____ GAL _____ IN
NE AGENT TYPE _____ GAL _____ IN
FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN
GELLING AGENT TYPE _____ GAL.-LB. _____ IN
FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN
BREAKER TYPE _____ GAL.-LB. _____ IN
BLOCKING AGENT TYPE _____ GAL.-LB. _____ IN
PERFPAC BALLS TYPE _____ QTY _____
OTHER _____
OTHER _____

DEPARTMENT _____
DESCRIPTION OF JOB _____
NOU
JOB DONE THRU: TUBING CASING **SEP** PLUS TBG./ANN.
CUSTOMER REPRESENTATIVE **X** F. ... **CONFIDENTIAL!**
HALLIBURTON OPERATOR 11/11/95 COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU FT / SK	MIXED LBS / GAL
<u>1</u>	<u>75</u>	<u>50/1</u>	<u>1</u>	<u>0</u>	<u>400, 1111, 1111, 1111</u>	<u>1.24</u>	<u>11.2</u>
<u>1</u>	<u>1</u>	<u>50/1</u>	<u>1</u>	<u>0</u>	<u>400, 1111, 1111, 1111</u>	<u>1.24</u>	<u>11.2</u>
<u>2</u>	<u>74</u>	<u>1111</u>	<u>1</u>	<u>0</u>	<u>400, 1111, 1111, 1111</u>	<u>1.24</u>	<u>11.2</u>

SUMMARY

CIRCULATING _____ DISPLACEMENT _____
BREAKDOWN _____ MAXIMUM _____
AVERAGE _____ FRACTURE GRADIENT _____
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____
HYDRAULIC HORSEPOWER _____
ORDERED _____ AVAILABLE _____ USED _____
AVERAGE RATES IN BPM _____
TREATING _____ DISPL _____ OVERALL _____
CEMENT LEFT IN PIPE _____
FEET _____ REASON _____

VOLUMES

PRESLUSH: BBL-GAL 50 TYPE 1111
LOAD & BKDN BBL-GAL _____ PAD BBL-GAL _____
TREATMENT: BBL-GAL _____ DISPL BBL-GAL 74
CEMENT SLURRY: BBL-GAL 74
TOTAL VOLUME BBL-GAL _____

REMARKS

11/11/95
1111

CUSTOMER
LEASE
WELL NO.
JOB TYPE
DATE

JOB LOG FORM 2013 R-4

DATE 5-31-94 PAGE NO. 1

CUSTOMER: J. B. B. WELL NO.: 2 LEASE: S.L.B. JOB TYPE: 2 Stage Fracturing TICKET NO.: 579232

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	12							Called
	1700							on line. Big lag due to DP
	1940							Start P. 5 1/2" casing
								First float valve Ball. in 12 in
								C. 1. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.
								45, 50 100, 1. 2
								C. B. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.
								C. B. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.
	775							D. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.
	7100							51 unit. in hole. Break circulation
	7150							110 unit. in hole. Break circulation
	7200							D. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.
	7200							C. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.
	7211	5	12				0	Start 12" fluid flush
	1.7		1207					Start mixing 2.5% K. 50L. R. 4/100
			417					11% salt. 5" fluid. 115% K. 50L. R. 4/100
								C. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.
	7400							For bed management work on Pump 1/2
		6						Release Plug and D. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.
			125					4.5% salt. 12" fluid
	7400						1100	Plug down 1100 p. 2 holding
	7403							Release P. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.
								Don't opening plug
	7414							on 1100 unit. Pump 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.
	7455	4	125					Start mixing 5% K. 110. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.
	0510							Finished mixing. Release along P. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.
			40					4.5% salt. 12" fluid
	0517						1100	Plug down 1100 p. 2 holding
								Release P. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.
								Don't opening plug
	0540							on 1100 unit. Pump 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.
	0615							on 30" casing to P. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.
								Job Complete

CONFIDENTIAL

RELEASED
OCT 26 1995

FROM CONFIDENTIAL

SEP 1
CONFIDENTIAL

Thank you
Reg

CUSTOMER
LEASE
WELL NO.
JOB TYPE
DATE

WELL DATA

FIELD _____ SEC. 30 TWP. 74 RNG. 22 COUNTY Hoboken STATE IL

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA D.W. 10/10/94 TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		5700	5 7/8	112	5209	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

CONFIDENTIAL

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR	1	
FLOAT SHOE <u>7.875 5.0"</u>	1	
GUIDE SHOE		
CENTRALIZERS <u>5.4</u>	12	
BOTTOM PLUG		
TOP PLUG <u>D.W. Plug</u>	1	
HEAD		
PACKER <u>D.W. 7.5</u>	1	
OTHER <u>C. 1.5</u>	4	

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>5/30/94</u> TIME <u>13:00</u>	DATE <u>5/30/94</u> TIME <u>15:00</u>	DATE <u>5/30/94</u> TIME <u>16:45</u>	DATE <u>5/31/94</u> TIME <u>06:15</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D. J. ...</u>	<u>41000</u>	<u>Illinois</u>
<u>T. ...</u>	<u>11000</u>	
<u>A. ...</u>	<u>26000</u>	
<u>P. ...</u>	<u>31000</u>	
<u>M. ...</u>	<u>31000</u>	

RELEASED
OCT 26 1995

FROM CONFIDENTIAL

MATERIALS

TREAT FLUID _____ DENSITY _____ LB/GAL. API

DISPL. FLUID _____ DENSITY _____ LB/GAL. API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

SURFACTANT TYPE _____ GAL. _____ IN.

SEALING AGENT TYPE _____ GAL. _____ IN.

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN.

FILLING AGENT TYPE _____ GAL.-LB. _____ IN.

PREPACED AGENT TYPE _____ GAL.-LB. _____ IN.

CRACKER TYPE _____ GAL.-LB. _____ IN.

COAGULATING AGENT TYPE _____ GAL.-LB. _____

PREPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT C-1

DESCRIPTION OF JOB C-1 Frac Pumping

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN

CUSTOMER REPRESENTATIVE X J. ...

HALLIBURTON OPERATOR P. ...

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU. FT. SK	MIXED LBS/GAL
1	255	50100 B	B	44.5	10% ...	1.24	124
2	170	30100 A	C	39.0	10% ...	1.24	124
3	75	10000	A	12.5	10% ...	1.24	124

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

REATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

TEST _____ REASON _____

PRESLUSH: BBL-GAL 500 TYPE 11.1/1.1

LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____

TREATMENT: BBL-GAL _____ DISPL: BBL-GAL 123

CEMENT SLURRY: BBL-GAL 241.2

TOTAL VOLUME: BBL-GAL _____

REMARKS

...

15-083-21408-0000

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

Phone 913-625-5516, Hays, KS
Phone 913-672-3471, Oakley, KS

Phone 316-886-5926, Medicine Lodge, KS
Phone 913-798-3843, Ness City, KS

4) 0)
New

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

6142

5-19-74

18. 74	Sec. 30	Fwp. 24	Range 22	Called Out 10:30am	On Location 1:30pm	Job Start 5:30pm	Finish 6:30pm
Well No. #2	Location Houston 73 miles NW		County Holt		State KS		

Operator	Maldred D. Hays
Job	Surface Pipe Job
Size	12" T.D. 380ft
Depth	8 1/2' 371'
Pipe	Depth
Left in Csg.	10 1/2' Shoe Joint
Max.	Minimum
Line	36" Displace 3.1 664

Owner
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 Jack B. Hays

Street S 53

City Houston **State** KS

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.

CONFIDENTIAL

EQUIPMENT

No.	Cementer	Helper
110	M. Hays	D. Hays
No.	Cementer	Helper
116		
Driver		
Driver		

CEMENT 1 truck

Amount Ordered 210 60 320 2200

Consisting of

Common
Poz. Mix
Gel.
Chloride
Quickset

CONFIDENTIAL

Sales Tax

TH of Job 379

Expense	Amount
2nd Truck Charge	
Mileage Charge	
1 5 1/2	
Sub Total	
Tax	
Total	

Handling

Mileage

Sub Total

Total

Floating Equipment

Remarks:
Mileage & Displace - Done
Cost did calculate

all Country Co. Inc
22 717

RELEASED

OCT 26 1995

FROM CONFIDENTIAL

SEP 1

CONFIDENTIAL

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

Phone 913-625-5516, Hays, KS
 Phone 913-672-3471, Oakley, KS

15-083-21408-0000
 Phone 316-886-5926, Medicine Lodge, KS
 Phone 913-798-3843, Ness City, KS

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

6153

Date: 5/23/94	Sec. 30	Twp. 24S	Range 22W	Called Out 11:15 AM	On Location Noon	Job Start 1:15 PM	Finish 2 PM
Contractor: Schaffter	Well No. 2	Location: 95 7E 15 E		County: Holt	State: KS		

Contractor: Mallard JV	Owner: Jack Baulb
Job: Straight hole test	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.
Well Size: 7 7/8" T.D. 3994	
Depth: 379	
Charge To: Mallard JV	CONFIDENTIAL
Street:	
City:	State:
Equipment Left in Csg.:	The above was done to satisfaction and supervision of owner agent or contractor.
Shoe Joint:	Purchase Order No.:
Minimum:	X [Signature]
Displace:	CEMENT
	Amount Ordered:
	Consisting of:
	Common:
	Poz. Mix:
	Gel.:
	Chloride:
	Quickset:
	Sales Tax:
	Handling:
	Mileage:
	Sub Total:
	Total:
	Floating Equipment:

EQUIPMENT

mptrk	No.	Cementor	Cray
		Helper	
mptrk	No.	Cementor	
		Helper	
lktrk		Driver	
		Driver	

DEPTH of Job	Reference:	Strength hole test
	Sub Total	
	Tax	
	Total	

Remarks: 7' @ 3950'

Thank you
 [Signature]

RELEASED

OCT 26 1995

SEP 1

FROM CONFIDENTIAL

CONFIDENTIAL

RECEIVED BY _____

CONFIDENTIAL



NOC National-Oilwell
SEP 1

NO 4002

CONFIDENTIAL

PIPE TALLY

ORIGINAL

CUSTOMER Mallard Crig DATE 5-17-14

CARRIER Quinton /B.L.# _____ CUST. ORDER NO. _____

STORE LOCATION Great Bend, KS P.O.# _____ LOCATION: Quinton

SIZE 8.000 WT. 50# GRADE _____ TYPE L.S. RANGE 2 THREAD _____

NO.	FT.	IN.	NO.	FT.	IN.	NO.	FT.	IN.	NO.	FT.	IN.	NO.	FT.	IN.	NO.	FT.	IN.	NO.	FT.	IN.	NO.	FT.	IN.
1	34	90	26			51			76			101			126			151			176		
2	34	12	27			52			77			102			127			152			177		
3	38	50	28			53			78			103			128			153			178		
4	38	15	29			54			79			104			129			154			179		
5	38	02	30			55			80			105			130			155			180		
6	34	10	31			56			81			106			131			156			181		
7	31	50	32			57			82			107			132			157			182		
8	28	40	33			58			83			108			133			158			183		
9	34	00	34			59			84			109			134			159			184		
10	34	40	35			60			85			110			135			160			185		
11			36			61			86			111			136			161			186		
12			37			62			87			112			137			162			187		
13			38			63			88			113			138			163			188		
14			39			64			89			114			139			164			189		
15			40			65			90			115			140			165			190		
16			41			66			91			116			141			166			191		
17			42			67			92			117			142			167			192		
18			43			68			93			118			143			168			193		
19			44			69			94			119			144			169			194		
20			45			70			95			120			145			170			195		
21			46			71			96			121			146			171			196		
22			47			72			97			122			147			172			197		
23			48			73			98			123			148			173			198		
24			49			74			99			124			149			174			199		
25			50			75			100			125			150			175			200		
Total	274	00																					

RELEASED
OCT 26 1999
FROM CONFIDENTIAL

TALLIED BY

NO. JOINTS 10

FOOTAGE 550

TOTAL 274.00 FT.

RECEIVED BY

[Signature]