SIDE ONE

Notary Public - State of Kansas My April Expres /- 14 - 94

Notary Public Frances O. Erhard KCC	STATE CORPORATION COMMISSION OF KANSAS	API NO. 15- 165-21,542-COO
DESCRIPTION OF VEIL AND LEASE perator: License # 5027 Mame: J. A. Allison Addrese 300 W. Douglas, Suite 305 City/state/zip Wichita, KS 67202 Urchaser: DODE Perator Contact Person: J. A. Allison Phone 316		County RUSH ~
Name: J. A. Allison Address 300 W. Douglas, Smite 305 City/State/Zip Wichita, KS 67202 City/State/Zip Wichita, KS 67202 Phone 316 263-2241 Ontractor: Name: S122 Reliste Geologist: Orlin R. Phelps esignate Type of Completion X. New Well Re-Entry Workover Gena in In Delayed Corp. Other Core, Water Supply, etc.) of OMMO: old well info as follows: Operator: Well kame: Old Total Depth Multiple Stage Cementing Coller Used? Yes X No Prilling Methods: SX Nod Rotary Air Rotary Cable 1/14/91 1/21/91 1/21/91 1/21/91 INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichite, Kansas 67202, within 120 days of the spud date of any well. Rule 82:3-130, 82:3-107 and 28:3-106 apply. Information on side two of this form with be held confidential for a period of 12 months. One copy of all wireline logs and drillers test log shall be attached with this forms. See rule 82:3-1107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers test log shall be attached with this form. See rule 82:3-1107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers test log shall be attached with this form. See rule 82:3-1107 for confidentiality in excess of 12 months. One copy of all wireline logs and correct to the best of my knowledge. **CCC SMD/Rep One-Plug Office Standard Plug Standard Corporation Commission of Surface Plug Science Standard Corporation Commission, 200 Colorado Derby Building, Wichite, Kansas 67202, within 120 days of the spud date of any well. Rule 82:3-130, 82:3-107 and 82:3-108 apply. Information on side two of this form with side test depth to well requires Rule 82:3-107 and 82:3-108 apply. Information on side two of this form with side test depth to well and gas industry have been fully compliced with and the statements herein are complete and correct to the best of my knowledge. **CCC. SDD/Rep One-Plug One-Plug One-Plug One-Plug One-Plug One-Plug One-Plug One-Pl		C N/2 SE NE sec. 26 Twp. 18s Rge. 18 XX West
Name: J. A. Allison Address 300 W. Douglas, Smite 305 City/State/Zip Wichita, KS 67202 City/State/Zip Wichita, KS 67202 Phone 316 263-2241 Ontractor: Name: S122 Reliste Geologist: Orlin R. Phelps esignate Type of Completion X. New Well Re-Entry Workover Gena in In Delayed Corp. Other Core, Water Supply, etc.) of OMMO: old well info as follows: Operator: Well kame: Old Total Depth Multiple Stage Cementing Coller Used? Yes X No Prilling Methods: SX Nod Rotary Air Rotary Cable 1/14/91 1/21/91 1/21/91 1/21/91 INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichite, Kansas 67202, within 120 days of the spud date of any well. Rule 82:3-130, 82:3-107 and 28:3-106 apply. Information on side two of this form with be held confidential for a period of 12 months. One copy of all wireline logs and drillers test log shall be attached with this forms. See rule 82:3-1107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers test log shall be attached with this form. See rule 82:3-1107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers test log shall be attached with this form. See rule 82:3-1107 for confidentiality in excess of 12 months. One copy of all wireline logs and correct to the best of my knowledge. **CCC SMD/Rep One-Plug Office Standard Plug Standard Corporation Commission of Surface Plug Science Standard Corporation Commission, 200 Colorado Derby Building, Wichite, Kansas 67202, within 120 days of the spud date of any well. Rule 82:3-130, 82:3-107 and 82:3-108 apply. Information on side two of this form with side test depth to well requires Rule 82:3-107 and 82:3-108 apply. Information on side two of this form with side test depth to well and gas industry have been fully compliced with and the statements herein are complete and correct to the best of my knowledge. **CCC. SDD/Rep One-Plug One-Plug One-Plug One-Plug One-Plug One-Plug One-Plug One-Pl		
Address 300 W Douglas, Suite 305 City/State/Zip Wichita, KS 67202 Urchaser: NOTE Deared Contact Person: J. A. Allison Phone 316 J 263-2241 Contractor: Meme: Woodman-Lamnitti Drilling Co. License: 5122 License: 5122 License: 5122 License: Oli Suo Tenp. Abd. Gas Ini Deleyed Comp. Gas Ini Deleyed Comp. Copp. Date Corp. Other (Core, Water Supply, etc.) of OMNO: old well info as follows: Operator: Well Name: Old Total Depth Amount of Surface Pips Set and Cemented at 1117' Feet Multiple Stage Cementing Coltar Used? Yes X No If yes, show depth set		600
City/State/Zip Wichita, KS 67202 Urchaser: None Perstor Contact Person: J. A. Allison Phone 316) 263-2241 Contractor: None: Woodman-Tamnitti Drilling Co. License: 5122 License: 5122 License: 5122 License: 5120 Coll SND Tesp. Abd. 3355 PSTD Field Name Associated Person: 1		(NOTE: Locate well in section plat below.)
city/state/Zip Wichiata, KS 6/202 urchaser: Nome perator Contact Person: J. A. Allison Phone 316) 263-2241 contractor: Name: Woodman-Tannitti Drilling Co. License: 5122 letisite Geologist: Orlin R. Phelps esignate Type of Completion X New Well Re-Entry Workover Gas Inj Delayed Comp. Gas Inj Delayed Comp. Other (Core, Water Supply, etc.) FOMMO: old well info as follows: Operator: Well Name: Comp. Date Old Total Depth Wultiple Stage Cementing Collar Used? Yes X No Prilling Method: XX Mud Rotary Air Rotary Cable 1/14/91 1/21/91 1/21/91 Supple Date Reached TD Completion Date INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 6/7020, 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 wireline logs and drillers time log shall be attached with this form. All CEMBUTING TICKETS MUST BE ATTACHED. Submit CP-6 rom with all plugged wells. Submit CP-11 form with all temporarily abandoned wells. Any well be statement of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are completed and correct to the best of my knowledge. K.C.C. OFFICE USE CMLY	Addiess 300 W. IAMGIAS, DULLE JUD	
perator Contact Person: _J. A. Allison Phone 316	city/state/Zin Wichita KS 67202	· ·
Phone 316) 263-2241 Woodman-Tannitti Drilling Co. License: 5122 Wolf Reserved Comp. Deleyed Comp. License: 101 License: 5122 Wolf Reserved Comp. Deleyed Comp. Deleyed Comp. Deleyed Comp. Wolf Info Store Sollows: Dependor: Well Name: Comp. Date Old Total Depth Multiple Stage Cementing Collar Used? Yes X No Deritling Method: 2XX, Mud Rotary Air Rotary Cable 1/14/91 1/21/91 License: 5122 Amount of Surface Pipe Set and Cemented at 1117' Feet Wolf yes, show depth set Feet depth to Feet depth to Served Reserved R		Producing Formation
Phone 316) 263-2241 Woodman-Iannitti Drilling Co. License: 5122 Wolf Re-Entry Workover Sesignate Type of Completion X New Well Re-Entry Workover Gas Inj Delayed Comp. Other Core, Water Supply, etc.) Gas Inj Delayed Comp. Operator: Well Name: Comp. Date Old Total Depth Multiple Stage Cementing Collar Used? Yes X No Prilling Method: 32X Mud Rotary Air Rotary Cable If Alternate II completion, cement circulated from 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 82-3-103, 82-3-107 and 82-3-108 apply. Information on slide 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 in requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months in requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months in requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months in requested in writing and submitted with the form. All CREMINE TITESTEMS ATTAINED. Submit CP-11 form with all plugged wells. Submit CP-11 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filling of ACO-2 within 120 days from commencement date of such work. Any recompletion, workover or submit to the form of a well requires filling of ACO-2 within 120 days from commencement of care of Confidentiality Attached C Prillers Timelog Received License On Erhard		Elevation: Ground 1986' KB 1991
contractor: Name: Woodman-Iannitti Drilling Co.		Total Depth 3755' PBTD
License: 5122 **elisite Geologist: Orlin R. Phelps **esignate Type of Completion X	Phone 316) 263-2241 Woodman-Iannitti Drilling Co.	
relisite Geologist: Orlin R. Phelps esignate Type of Completion X New Well Re-Entry Workover Oil SND Temp. Abd. Gas Inj Delayed Comp. Dry Other (Core, Mater Supply, etc.) f OMMO: old well info as follows: Operator: Well Name: Comp. Date Old Total Depth Multiple Stage Cementing Collar Used? Yes X No Well Name: Comp. Date Old Total Depth If yes, show depth set 1/14/91 1/21/91 1/21/91 Spud Date Date Reached TD Completion Date INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichits, 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. One copy of all wireline logs and drillers time log shall be attached with this form with all plugged wells. Submit CP-11 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. A. Allison Operator Date 1/29/91 F Letter of Confidentiality in excellence of Subnity Attached C Wireline Log Received C Drillers Timelog Received C Drillers Timeler Other Concerns Time C Drillers Timelog Received C Drillers Timelog Receive		
esignate Type of Completion X New Well Re-Entry Workover Gis SND Temp. Abd. Gis Inj Delayed Comp. Other (Core, Water Supply, etc.) f OMMO: old well info as follows: Operator: Well Name: Comp. Date Old Total Depth Multiple Stage Cementing Collar Used? 1/14/91 1/21/91 1/21/91 Spud Date Date Reached TD Completion Date 1/14/91 1/21/91 1/21/91 Spud Date Date Reached TD Completion Date 1/14/91 1/21/91 1/21/91 Spud Date Date Reached TD 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 writing and submitted with the form. See rule 82-3-107 for confidential for a perish Builting and submitted with the form. See rule 82-3-107 for confidential for a perish Builting and submitted with the form. See rule 82-3-107 for confidential for a perish Builting and submitted with the form. See rule 82-3-107 for confidential for a perish Builting and submitted with the form. See rule 82-3-107 for confidential for a perish Builting and submitted with the form. See rule 82-3-107 for confidential for a perish Builting and submitted with the form. See rule 82-3-107 for confidential for a perish Builting and submitted with the form. See rule 82-3-107 for confidential for a perish Builting and submitted with the form. See rule 82-3-107 for confidential for a perish Builting and submitted with the 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 statues, 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. A. Allison Date Multiple Submitted Submit		
Well Name: Comp. Date Old Total Depth Multiple Stage Cementing Collar Used? Yes X No No Notation	ellsite Geologist: Orlin R. Phelps	2970
Oil SUD Temp. Abd. Gas Inj Delayed Comp. Other (Core, Water Supply, etc.) f OMMO: old well info as follows: Operator: Well Name: Comp. Date Old Total Depth Multiple Stage Cementing Collar Used? Yes X No Orilling Method: XX Mud Rotary Air Rotary Cable If Alternate II completion, cement circulated from If Alternate II completion, cement circulated from If Alternate II completion, cement circulated from Section Sullding, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-103 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 CEMENTINE 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. A. Allison Date 1/29/91 Notary Public Lace C. ShO/Rep NGPA CCC ShO/Rep NGPA Cockery Public Lace C. ShO/Rep NGPA Cockery Public C. ShO/Rep NGPA Cockery Public Lace C. ShO/Rep NGPA Cocker		2310
f CMMO: old well info as follows: Operator: Well Name: Comp. Date Old Total Depth Multiple Stage Cementing Collar Used? YesX No Wrilling Method: XX Mud Rotary Air Rotary Cable 1/14/91		
f OMANO: old well info as follows: Operator: Well Name: Comp. Date Old Total Depth Multiple Stage Cementing Collar Used? YesX No rilling Method:	Gas Inj Delayed Comp.	1320, 130 1991
Well Name: Amount of Surface Pipe Set and Cemented at	Dry Other (Core, Water Supply, etc.)	
Amount of Surface Pipe Set and Cemented at 1117' Feet Comp. Date		SOCIETA DESCRIPTION AIT DESCRI
Comp. Date Old Total Depth Multiple Stage Cementing Collar Used? Yes X No rilling Method: XXX Mud Rotary	•	· ·
If yes, show depth set		
XX Mud Rotary		
1/14/91 1/21/91 1/21/91 1/21/91	rilling Method:XX Mud Rotary Air Rotary Cable	
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. A. Allison Date 1/29/91 Subscribed and sworn to before me this 29 day of January Distribution KCC SWD/Rep NGPA Wireline Log Received K.C.C. OFFICE USE ONLY F Letter of Confidentiality Attached C Wireline Log Received C Wireline Log Received Distribution KCC SWD/Rep NGPA NOFA Other KGS Plug Other (Specify)	1/14/91 1/21/91 1/21/91	
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. A. Allison Operator Date 1/29/91 Exc.c. OFFICE USE ONLY F Letter of Confidentiality Attached C Wireline Log Received C Wireline Log Received C Wireline Log Received C SWD/Rep NGPA Frances O. Erhard NGPA Other (Specify)		feet depth tow/sx cmt.
Signature J. A. Allison Title Operator Date 1/29/91 Subscribed and sworn to before me this 29 day of January Notary Public Trances O. Erhard K.C.C. OFFICE USE ONLY F Letter of Confidentiality Attached C Wireline Log Received C Drillers Timelog Received KCC SWD/Rep NGPA KCC SWD/Rep Other (Specify)	Derby Building, Wichita, Kansas 67202, within 120 days 82-3-106 apply. Information on side two of this form will writing and submitted with the form. See rule 82-3-wireline logs and drillers time log shall be attached with form with all plugged wells. Submit CP-111 form with a	s of the spud date of any well. Rule 82-3-130, 82-3-107 and be held confidential for a period of 12 months if requested in -107 for confidentiality in excess of 12 months. One copy of all this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 all temporarily abandoned wells. Any recompletion, workover or
Signature J. A. Allison Title Operator Date 1/29/91 Subscribed and sworn to before me this 29 day of January Notary Public Frances O. Erhard K.C.C. OFFICE USE ONLY F Letter of Confidentiality Attached C Wireline Log Received C Drillers Timelog Received KCC SWD/Rep NGPA KCC SWD/Rep Other (Specify)		
J. A. Allison Title Operator Date 1/29/91 Subscribed and sworn to before me this 29 day of January Notary Public Frances O. Erhard Title Operator Date 1/29/91 F Letter of Confidentiality Attached C Wireline Log Received C Drillers Timelog Received KCC SWD/Rep NGPA KGS Plug Other (Specify)	in and the statements herein are complete and correct to	the best of my knowledge.
Subscribed and sworn to before me this 29 day of January Notary Public Frances O. Erhard Date 1/29/91 C Wireline Log Received C Drillers Timelog Received C Wireline Log Received	Signature XXXXXXXX	
Subscribed and sworn to before me this 29 day of January 19 91 Notary Public Frances O. Erhard C Drillers Timelog Received C Drillers Timelog Received	J. A. Allison Title Operator Date	1/29/91 C Wireline Log Received
Notary Public Frances O. Erhard Distribution KCC SWD/Rep NGPA KGS Plug Other (Specify)		C Drillers Timelog Received
Notary Public Frances O. Erhard KGS Plug Other (Specify)	19 <u>91</u> .	Distribution
Trances of Britary		KGS Plug Other
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Form ACO-1 (7-89)

SIDE TWO Operator Name J. A. ALLISON TAMMEN RUSH County Sec. 26 Twp. 18s Rge. 18 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. ll Stem Tests Taken Yes No (Attach Additional Sheets.) (See att. sheet) Drill Stem Tests Taken Formation Description ☐ Yes ☐ No Log X Sample Samples Sent to Geological Survey ☐ Yes ☒ No Cores Taken Name Top **Bottom** U ves X No Anhydrite 1106 + 885 Electric Log Run Heebner 3322 -1331(Submit Copy.) Toronto 3340 -1349Lansing 3373 -1382Base Kansas City 3646 -1655Conglomerate 3710 -1719Arbuckle 3743 -1752RTD 3760 -1769CASING RECORD ☐ New X Used Report all strings set-conductor, surface, intermediate, production, etc. Purpose of String # Sacks Size Hole Size Casing Weight Setting Type of Type and Percent Lbs./Ft. Drilled Set (In O.D.) Used Additives Depth Cement 3%CC+2%Ge1 400 1117' 12-1/4" 8-5/8" 28# 60-40 Surface Pozmix (Allied Cementing invoices attached for running su rface and plugging well) PERFORATION RECORD Acid, Fracture, Shot, Cement Squeeze Record Shots Per Foot Specify Footage of Each Interval Perforated (Amount and Kind of Material Used) TUBING RECORD Size Set At Packer At Liner Run ☐ Yes ☐ No. Date of First Production | Producing Method | Flowing | Pumping | Gas Lift | Other (Explain) Estimated Production Gas-Oil Ratio Water Bbls. Mcf Bbls. Gravity Per 24 Hours METHOD OF COMPLETION Disposition of Gas: Production Interval Open Hole Perforation Dually Completed Commingled ☐ Vented ☐ Sold ☐ Used on Lease (If vented, submit ACO-18.) U Other (Specify)

API NO. 15-165-21,542 COO TAMMEN #2 - C N2 SE NE Sec. 26-18S-18W, Rush County, Kansas Side Two of ACO-1

DRILL STEM TESTS TAKEN:

- $\frac{\text{DST } \#1\ (3689-3720)}{\text{all pressures }22\text{, Temp. }104^{\circ}\text{.}}$ op 30, si 30; weak blow 8 min., rec. 2' mud,
- DST #2 (3689-3740) op 30, si 30; op 30, si 30; weak blow 13 min., rec. 5' mud, S. 0. on top, all pressures 58, Temp. 104°.
- DST #3 (3689-3745) op 30, si 30; weak blow 2 min. flush, rec. 5' mud, S. O. on top, ISIP 152, FSIP not taken; IFP 58-58, FFP not taken, Temp. 104°.
- $\frac{\text{DST } \#4 \text{ (3689-3750)}}{\text{ISIP } 117, \text{ FSIP not taken; IFP } 58-58, \text{ FFP not taken, Temp. } 104^{\circ}.}$

NOTE: Arrow Testing Company Drill-Stem Test Data attached for Tests 1, 2, 3 & 4.

JAN 30 1991

State Committee of the Committee of the

DRILL-STEM TEST DATA

Well Name	Tammen	Test No.	
Well Number	2	Zone Tested	Sand
Company	J.A. Allison	Date	1-19-91
Comp. Rep.	O.R. Phelps	Tester	Don Fabricius
Contractor	Woodman-lannitti Drilling	Ticket No.	2902
Location	26-18-18	Elevation	

Recorder No. 3088 Clock Range 12	Recorder No4377Clock Range12
Depth3712	Depth3716
Initial Hydro Mud Press1900	Initial Hydro Mud Press1901
Initial Shut-in Press. 35	Initial Shut-in Press35
Initial Flow Press. 22-22	_Initial Flow Press35-35
Final Flow Press. 22-22	_Final Flow Press35-35
Final Shut-in Press35	Final Shut-in Press. 35-35
Final Hydro Mud Press. 1900	Final Hydro Mud Press. 1901
Temperature104	_Tool Open Before I. S. I30 Mins.
Mud Weight9.1Viscosity42	_Initial Shut-inMins.
Fluid Loss10	_Flow PeriodMins.
Interval Tested 3689-3720	_Final Shut-inMins.
Top Packer Depth 3684	_Surface Choke Size1"
Bottom Packer Depth 3689	Bottom Choke Size3/4"
Total Depth 3720	Main Hole Size7 7/8
Drill Pipe Size 4½ X H Wt. 16.60	Rubber Size 6 3/4
Drill Collar I. D Ft. Run	
Recovery—Total Feet	
Recovered 2 Feet Of mud	1-30-91
Recovered Feet Of	1-30 1991 JAN 30 1991
RecoveredFeet Of	JAN
Recovered Feet Ot	
Remarks	
Very weak blow dead in 8	min.

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Arrow Testing Company shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Arrow Testing Company, nor whether resulting from the acts or omissions of Arrow Testing Company, or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

It is expressly understood and agreed that Arrow Testing Company, shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Arrow Testing Company has authority to alter or extend the terms of this agreement. I have read and understand the terms of this agreement and represent that I am authorised to sign the same as agent of customer.

3088 ORIGINAL 2902

9317

2902

114 N 3 O 1991

P. O. BOX 1051

DRILL-STEM TEST DATA

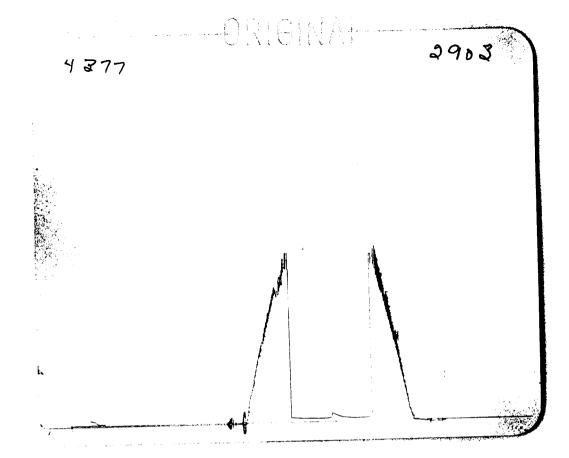
Well Name	Tammen	Test No.	2
Well Number	2	Zone Tested	Arb
Company	J.A. Allison	Date	1-19-91
Comp. Rep.	O.R. Phelps	Tester	Don Fabricius
Contractor	Woodman-Iannitti Drilling	Ticket No.	2903
Location	26-18-18	Elevation	

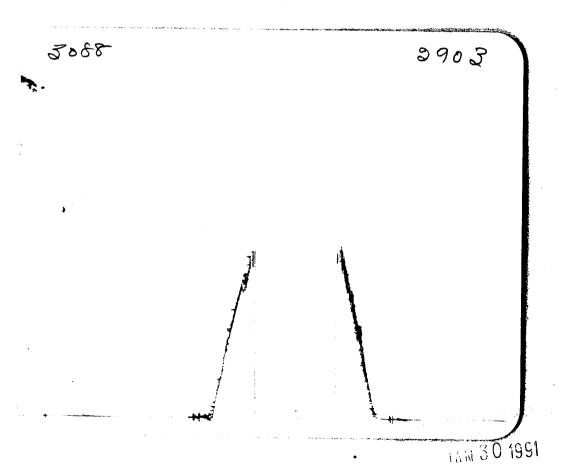
Recorder No. 3088		Recorder No. 4377	Clock Rang	e <u>12</u>
Depth	3732	Depth	3936	Market W. P. Market
Initial Hydro Mud Press	1912	_Initial Hydro Mud Press	1913	
Initial Shut-in Press.	94	Initial Shut-in Press	105	
Initial Flow Press.	58-58	Initial Flow Press	58-58	
Final Flow Press.	58-58	_Final Flow Press	58-58	
Final Shut-in Press.	58	_ Final Shut-in Press	58	
Final Hydro Mud Press	1912	_ Final Hydro Mud Press	1913	
Temperature	104	_Tool Open Before I. S. I	30	Mins.
Mud Weight 9.3	_Viscosity45	_Initial Shut-in	30	Mins.
Fluid Loss	11	_Flow Period	30	Mins.
Interval Tested	3689-3740	_Final Shut-in	30	Mins.
Top Packer Depth		Surface Choke Size	- **	
Bottom Packer Depth	3689	Bottom Choke Size	3/4"	
Total Depth	3740	Main Hole Size	7 7/8	
Drill Pipe Size 4½ X H	_Wt16.60	_Rubber Size	6 3/4	
Drill Collar I. D.	Ft. Run			
Recovery—Total Feet				
Recovered 5 Feet	Of <u>mud</u> with tra	ce of oil on top	100	1
Recovered Feet	: Of			-C.1
RecoveredFeet	Of		MAN 30 19	
Recovered Feet	Of		<u> </u>	ja jajit
Remarks				
Very we	eak blow dead in 1	3 min.		

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Arrow Testing Company shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Arrow Testing Company, nor whether resulting from the acts or omissions of Arrow Testing Company, or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

Ву						
•	Owner,	Operator	or	bis	Agens	

It is expressly understood and agreed that Arrow Testing Company, shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Arrow Testing Company has authority to alter or extend the terms of this agreement. I have read and understand the terms of this agreement and represent that I am authorised to sign the same as agent of customer.





ARROW TESTING COMPANY

P. O. BOX 1051

GREAT BEND, KANSAS 67530

DRILL-STEM TEST DATA

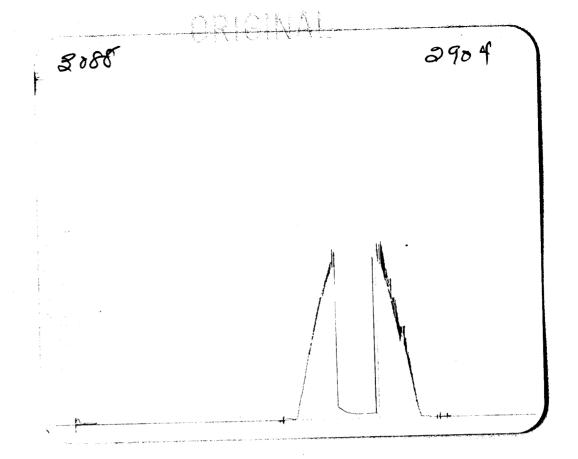
Well Name	Tammen	Test No.	3
Well Number	2	Zone Tested	Arb
Company	J.A. Allison	Date	1-20-91
Comp. Rep.	O.R. Phelps	Tester	Don Fabricius
Contractor	Woodman-Iannitti Drilling	Ticket No.	2904
Location	26-18-18	Elevation	

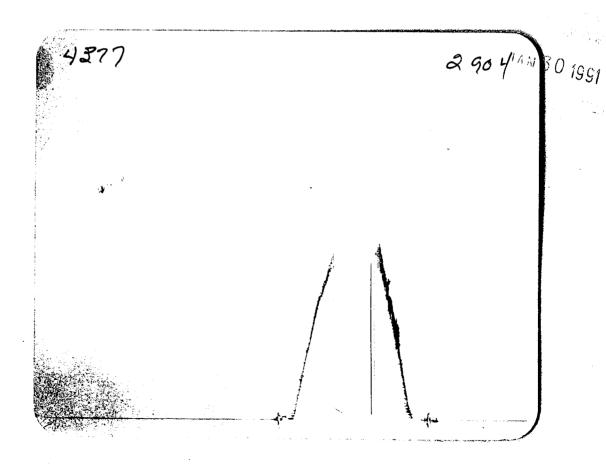
Recorder No. 3088 Clock R		Recorder No. 4377		
Depth37		Depth		
Initial Hydro Mud Press	23	_Initial Hydro Mud Press	1924	
Initial Shut-in Press	2	_Initial Shut-in Press	164	
Initial Flow Press58		Initial Flow Press	58-58	
Final Flow Press.		Final Flow Press.		
Final Shut-in Press.		Final Shut-in Press.	11, 12, 1-1	
Final Hydro Mud Press. 19	23	Final Hydro Mud Press	1924	
Temperature10	4	Tool Open Before I. S. I	30	Mins.
Mud Weight9.3Viscosit	y <u>50</u>	Initial Shut-in	30	Mins.
Fluid Loss11	.8	Flow Period		Mins.
Interval Tested 36	89-3745	Final Shut-in		Mins.
Top Packer Depth36	84	Surface Choke Size	1"	
Bottom Packer Depth36	89	Bottom Choke Size	3/4"	
Total Depth37	45	Main Hole Size	7 7/8	
Drill Pipe Size4½ X H_Wt	16.60	Rubber Size	6 3/4	
Drill Collar I. D Ft. Run				····
Recovery—Total Feet				
Recovered5 Feet Of	mud with spo	ots of oil on top		
Recovered Feet Of			4.2.	
RecoveredFeet Of		· · · · · · · · · · · · · · · · · · ·	***	<u> </u>
Recovered Feet Of			HAN 30-19	991
Remarks				
Very weak blo	w dead in 2	min flushed tool		
Very weak blo	w 30 seconds			

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Arrow Testing Company shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Arrow Testing Company, nor whether resulting from the acts or omissions of Arrow Testing Company, or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

It is expressly understood and agreed that Arrow Testing Company, shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Arrow Testing Company has authority to alter or extend the terms of this agreement. I have read and understand the terms of this agreement and represent that I am authorized to sign the same as agent of customer.

Bv	 					
_,	Owner,	Operator	07	bis	Agens	





ARROW TESTING COMPANY

P. O. BOX 1051

GREAT BEND, KANSAS 67530

DRILL-STEM TEST DATA

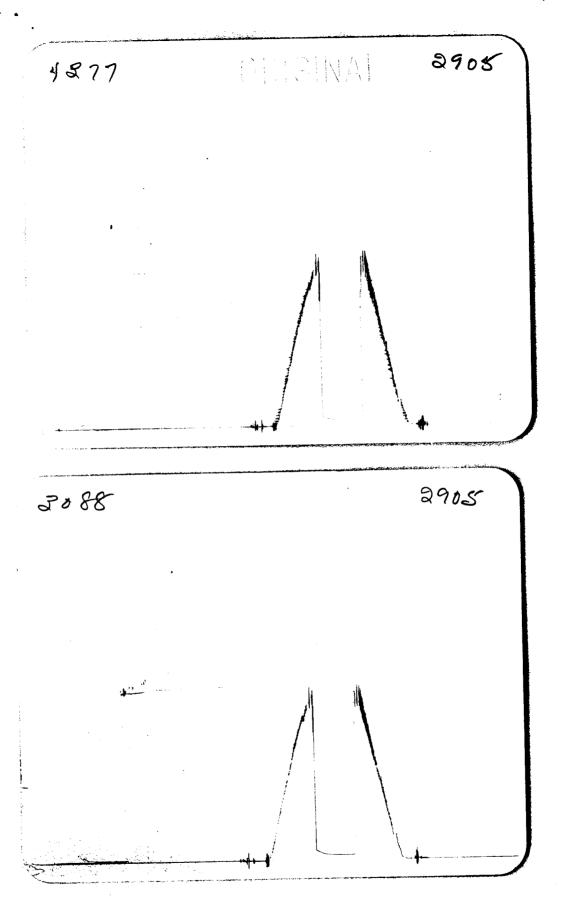
Well Name	Tammen	Test No.	4
Well Number	2	Zone Tested	Arb
Company	J.A. Allison	Date	1-21-91
Comp. Rep.	O.R. Phelps	Tester	Don Fabricius
Contractor	Woodman-Iannitti Drilling	Ticket No.	2905
Location	26-18-18	Elevation	

Recorder No. 3088 Clock Range 12	Recorder No4377	Clock Range 12	
Depth3742	Depth	3746	
Initial Hydro Mud Press1923	Initial Hydro Mud Press	1924	
Initial Shut-in Press117	Initial Shut-in Press	117	
Initial Flow Press. 58–58	Initial Flow Press	58-58	
Final Flow Press.	Final Flow Press		
Final Shut-in Press.	_ Final Shut-in Press		
Final Hydro Mud Press. 1923	_ Final Hydro Mud Press	1924	
Temperature104	Tool Open Before I. S. I	M	ins.
Mud Weight9.3Viscosity45	Initial Shut-in	Mi	ins.
Fluid Loss15	Flow Period	M	ins.
Interval Tested 3689-3750	Final Shut-in	M	ins.
Top Packer Depth3684	Surface Choke Size	1"	
Bottom Packer Depth 3689	Bottom Choke Size	3/4"	
Total Depth 3750	Main Hole Size	7 7/8	
Drill Pipe Size 4½ X H Wt. 16.60	Rubber Size	6 3/4	
Drill Collar I. DFt. Run			
Recovery—Total Feet		W.	
RecoveredFeet Of			<u></u>
Recovered Feet Of		JAN 30 199	21
RecoveredFeet Of		103	
Recovered Feet Of			
Remarks			
Very weak blow dead in	L5 min.		

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Arrow Testing Company shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Arrow Testing Company, nor whether resulting from the acts or omissions of Arrow Testing Company, or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

It is expressly understood and agreed that Arrow Testing Company, shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Arrow Testing Company has authority to alter or extend the terms of this agreement. I have read and understand the terms of this agreement and represent that I am authorized to sign the same as agent of customer.

Bv					
_,	Owner,	Operator	01	bis	Agent



TELEPHONE:
AREA CODE 913 483-2627

ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31 RUSSELL, KANSAS 67665

то:	J. A. Allison	011		58523
	300 W. Dougle	s #305	PURCHASE ORDER 1	NO.
	Wichita, Kans	as 67202		Tammen #2
			DATE	Jan. 15, 1991
SERVIC	E AND MATERIALS AS FOLLO	ows:		
	Common 240 sk Pozmix 160 sk Chloride 12 s	9 @\$2.25	\$ 1,260.00 360.00 252.00	4 1,872.00
	Surface	\$0.04¢ per sk per mi	400.00 448.00 380.00 318.63 56.00	
			42.00	1,644.63
	1 8 5/8" cent.	If account <u>CURRENT</u> 20% be allowed <u>ONLY</u> if paid		\$ 3,577.63
	Cemmnt circ.	from date of invoice.	<u></u>	,,
N 171	991 I Prices Are Net, Payable	30 Days Following Bare of Myblice. 14	% Charged Thereafter.	

Phone 913-483-2627, Russell, Kanso

Phone Plainville 913-434-2812

Phone 314-793-5861, Great Bend, Kansas

Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

New	<i>,</i> –		lame Office P	. O. Box 31			Russell, Kanses 67	665	
		Sec.	ſwp.	Range	1 -	alled Out	On Location	Job Start	Finish
Date /-15-	91	124	18	18	11:00	Am_	13:30Am	4:30Am	5.15A12
Lease Tamm	EN	Well No.	2	Location	" Kus	h Conto	cr 2 F 1/45 W	S. Rus County	State
Contractor Lt/	ordinan	-Jann	itti \$	=/		Owner		Same	
Type Job \mathcal{D}_{ϵ}	20 S	dring	Surta	e		You are h	Cementing Co., Inc.	nt cementing equipment or	nd formish
Hole Size		12/4	T.D.	1/7 1		cementer s	and helper to assist o	wner or contractor to do	work as listed.
Cag		85/8	Depth /	<u>' לאו</u>		Charge To	5,A, A11:3	~~.)	
Thg. Size	<u> </u>		Depth			Street 3/	^ - ` ^	1 0	4 305
Drill Pipe			Depth			City 1	20 al : 1=	ouglas Si	ule 305
Tool			Depth				was done to satisfaction	State Co. Common and supervision of owns	1 7202
Cement Left in C	Gg.	151	Shoe Join	t		Purchase Or	des No		
Press Max.			Minimum		· · · · · · · · · · · · · · · · · · ·	x P	likale		
Meas Line -	1104		Displace ,	-48.91	BB15	HACE	unun		
Perf.			**	*. :		Amount	 	CEMENT	
		EQUIPME	NT.			Ordered	400 SKS	60/40 2%gel	3%c.c
						Consisting			
GT, Bend N	lo. Ceme	nter Phi				Common	240	5.25	1260.00
Pumpuk 19.5	Helpe	I Jack				Poz. Mix	160	2.25	360.00
N	To. Ceme	nter				Gel.	- 8-	6,25	n/c
Pumperk	Helpe					Chloride Quickset	_/2	21.00	252.00
nu. 176	Drive	r Yancy	<u>'</u>						
Bulktrk / 79 Bulktrk	Drive	 /							
Dunkuk	Dilve						11.0	Galepüller	
DEPTH of Job				, .		Handling	400	1.00	400.00
Reference:	\mathcal{P}_{i}	O Tri	k Cha	138	0,00	Mileage	28		448,0C
28	Pund	Tri			6.00	1		Sub Total	
,	65K	Plus	- 111		2.00		- 1	-	7724 46
	817'	11	39	3/3	163	Floating Eq	uipment		2720.00
	67 /	at.		. 170		1-89	8 L'ENTra! /	7cr -61.00	0
Remarks:	ment	Rich		lete	0.63		· · · ·	1 1 11 -	·
	menu	ever	aca	ull)			701	4/ 4 357	7.63
The Will						Di`	sc- 7/	5,53	
Alled Generating Co Inc.						\$ 200	2 /0		
		ردو ل	enci tiz	40 1	1, 6 1		·	# 286	dill

THE PROPERTY OF

Phone Plainville 913-434-2812

Phone 316-793-5861, Great Bend, Kansas

Phone Ness City 913-798-3843 Νº

1229

TELEPHONE: IEA CODE 913 483 2627 ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31 RUSSELL, KANSAS 67665 MAN

ALLIED CEMENTING CO., INC. Home Office P. O. Box 31 Russell, Kanses 67665 New Called Out On Location Job Stare Sec. Date 1-21-91 3:00 P.M. 4:30 P.M 6:00 P.M 8:00P.M. 18 Well No # 2 Contractor WOODWAD - TANVITTI To Allied Cementing Co., Inc. You are hereby requested to rent cen T.D. 3755 Hole Size Depth Depth Thg. Size Drill Pipe 45 Depth 1145" Depth Cement Left in Csg. Shoe Joint Press Max. Minimum Meas Line Displace CEMENT Perf. Amount 1455Ks 6940 690Gel EQUIPMENT Consisting of 87 Cementer TIM Poz. Mix 58 Helper Gel. Cementer Chloride Helper Pumpuk Quickset Driver Duane 119 179 Bulktrk Handling 145 1,00 145.00 DEPTH of Job Mileage 28 162.40 380,00 Sub Total Atak Milegge 56.00 955,40 20,00 Floating Equipment Total 456.00 Mixed-50 srs at 145' 1:0 sxs at 700 10 SKS OUT 40 15 sks in lathole 10 sks in waterwall By Tim Diebson .

"IAN 28 1991

J. A. Allison Oil	Company	- INVOICE NO	58575	
300 W. Douglas #3	05	- PURCHASE ORDER NO.		
Wichita, Kansas 6	7202	LEASE NAME	Tammen #2	
		DATE	Jan. 21, 1991	
RVICE AND MATERIALS AS FOLLOWS:				
Common 87 sks @\$5 Pozmix 58 sks @\$2		\$ 456.75		
Gel 9 sks @\$6.75	.23	130.50 60.75	\$ 648.00	
Handling 145 sks (Mileage (28) @\$0.(Plugging Mi @\$2.00 pmp. tri l plug	04¢ per sk permL	145.00 162.40 380.00 56.00 20.00	763.40	
50 sks. @1145' 60 sks. @ 700' 10 sks. @ 40' 15 sks. in R. H. 10 sks. in W. W.	If account <u>CURREN</u> be allowed <u>ONLY</u> if from date of invoice	Total T 20% discount will paid within 30 days	\$ 1,411.40	
91	THANK YOU			

All Prices Are Net, Payable 30 Days Following Date of Invoice. 11/2% Charged Thereafter.