

(AMENDED)

SIDE ONE

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

COPY

API NO. 15-101-21,449-0000

County Lane

SW 1/4 SE 1/4 SE 1/4 Sec. 18 Twp. 19S Rge. 28W East
X West

Operator: License # 5020
Name Rine Exploration Company
Address Suite #645
300 W. Douglas
City/State/Zip Wichita, KS 67202-2904

Purchaser Inland Purchasing
Wichita, KS 67202

Operator Contact Person M. Bradford Rine
Phone 316/262-5418

Contractor: License # 5422
Name Abercrombie Drilling, Inc.

Wellsite Geologist M. Bradford Rine
Phone 316/262-5418

Designate Type of Completion
X New Well Re-Entry Workover

X Oil SWD Temp Abd
Gas Inj Delayed Completion
Dry Other (Core, Water Supply etc.)

If ONWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
X Mud Rotary Air Rotary Cable
01/04/88 01/18/88 02/11/88
Spud Date Date Reached TD Completion Date
4725' 4682'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 268 feet
Multiple Stage Cementing Collar Used? X Yes X No
If yes, show depth set 2138 feet
If alternate 2 completion, cement circulated 450
from 268' 2138' surface 165' 165' SX cmt
Cement Company Name Allied Cementing Company
Invoice # 50690 P.O. work order 6-6-88

330 Ft North from Southeast Corner of Section
990 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

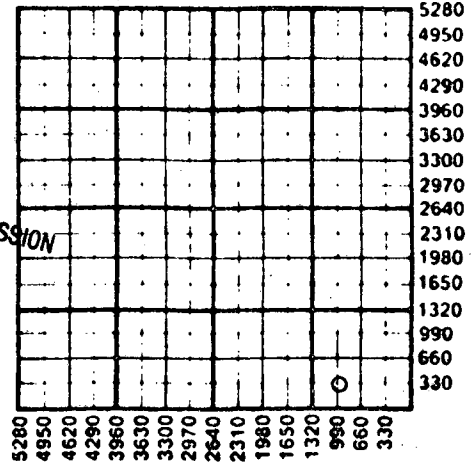
Lease Name Hineman "B" Well # 2-18

Field Name Hiney

Producing Formation Fort Scott

Elevation: Ground 2790' KB 2795'

Section Plat



RECEIVED
STATE CORPORATION COMMISSION
JUN - 1 1988
6-1-88
CONSERVATION DIVISION
Wichita, Kansas

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water: T-88-26
Division of Water Resources Permit #

X Groundwater 1320 Ft North from Southeast Corner
(Well) 3960 Ft West from Southeast Corner of
Sec Twp Rge East West

Surface Water Ft North from Southeast Corner
(Stream, pond etc) Ft West from Southeast Corner
Sec Twp Rge East West

Other (explain)
(purchased from city, R.W.D. #)

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. 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 M. Bradford Rine
(M. Bradford Rine)
Title President & Geologist Date 03/04/88

Subscribed and sworn to before me this 4th day of March 1988

Notary Public Ginger L. Mitchell
(Ginger L. Mitchell)

Date Commission Expires June 11, 1988

GINGER L. MITCHELL
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXPIRES 6-11-88

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)
6-1-88

Sec. 18 Twp. 19 Rge. 28 W

Operator Name Rine Exploration Company Lease Name Hineman "B" Well # 2-18

Sec. 18 Twp. 19 South Rge. 28 West East West County Lane

WELL LOG

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
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

ST #1: 4213'-4250' (LKC H, I zone) 30-45-30-60. Strong low, rec. 2310' sulphur water.
 P 194 - 787 ISIP 1109
 P 883 - 1044 FSIP 1109

ST #2: 4256'-4266' (LKC J zone) 15-45-30-60. Strong low, rec. 20' clean oil, 350' sulphur water.
 P 21 - 75 ISIP 1087
 P 140 - 162 FSIP 1087

ST #3: 4322'-4342' (Upper L zone) 30-30-30-30. Weak low, died in 15 min., rec. 20' socm.
 P 21 - 21 ISIP 97
 P 43 - 43 FSIP 43

ST #4: 4338'-4385' (Lower L zone & Upper Marmaton) 30-60-30-90. Strong blow, rec. 160' clean gassy oil, 410' sulphur water.
 P 118 - 432 ISIP 991
 P 540 - 679 FSIP 991

ST #5: 4497'-4635' (Pawnee, Fort Scott, Cherokee) 30-60-30-60. Strong blow, gas to surface immediately on 2nd open, rec. 1170' clean gassy oil, 500' froggy muddy gassy oil (50% gas, 45% oil, 5% mud) 43 gravity oil.

Name	Formation Description	
	Top	Bottom
SAMPLE TOPS		
Anhydrite	2122	+ 673
Base Anhydrite	2153	+ 642
Heebner	3950	-1155
Lansing	3994	-1199
Mississippian	4635	-1840
RTD	4725	-1930
E-LOG TOPS		
Anhydrite	2122	+ 673
Heebner	3955	-1160
Lansing	4000	-1205
Stark	4286	-1491
Base Kansas City	4372	-1577
Marmaton	4393	-1598
Fort Scott	4541	-1746
Mississippian	4637	-1842
LTD	4727	-1932

IFP 194 - 356 ISIP 1173
 FFP 465 - 562 FSIP 1130

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"	23#	268'	Common	165	28 gal. 3% cc.
Production	7 7/8"	4 1/2"	10 1/2#	4729'	EA-2	175	3/4 of 1% CFR-2

PERFORATION RECORD

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4541' - 4545'	300 gal. 10% acetic acid	

TUBING RECORD

Size 2 3/8 Set At 4550 Packer at — Liner Run Yes No

Date of First Production 02/18/88 Producing Method Flowing Pumping Gas Lift Other (explain).....

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	75 Bbls	— MCF	— Bbls	CFPB	

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Sold Used on Lease Open Hole Perforation Other (Specify).....

Dually Completed Commingled

4541 - 4545
F.T. Scott



Kansas Corporation Commission

MIKE HAYDEN GOVERNOR
KEITH R. HENLEY CHAIRMAN
RICH KOWALEWSKI COMMISSIONER
MARGALEE WRIGHT COMMISSIONER
JUDITH McCONNELL EXECUTIVE DIRECTOR
FRANK A. CARO, JR. GENERAL COUNSEL

DISTRICT # 1
302 W. McArtor
Dodge City, Ks 67801
(316) 225-6760

CONSERVATION DIVISION
SHARI M. FEIST, DIRECTOR
200 Colorado Derby Bldg.
202 W. 1st Street
Wichita, KS 67202-1286
(316) 263-3238

May 26, 1988

Rine Exploration Company
300 West Douglas, Suite 645
Wichita, KS 67202-2904

COPY

Re: Alternate II Cement Verification
Hineman "B" #2-18
SW SE SE 18-19-28W
Lane County
API #15-101-21,449

Dear Sir:

After reviewing the intent to drill form submitted on the above captioned well, no information has been released on whether Alternate II cementing has been performed. Either we do not have an ACO-1 for this well, or if one has been filed, it does not indicate that Alternate II cementing has been done.

K.A.R. 82-3-106 requires that all phases of well completion must be accomplished within 120 days of the original spud date of the well. Extensions of time for completion may be granted only upon written request to the Director of the Conservation Division. The failure to comply with provisions of K.A.R. 82-3-106 is punishable by an administrative penalty of \$5,000.

The aforementioned deadline has expired or is due to expire for the above captioned well within the next thirty (30) days. If the required work has been completed, please send a copy of the cement job ticket, bond log, or temperature survey to the Wichita office and to this office.

If cementing has not been completed, please contact this office ~~within the next ten (10) days~~ to avoid administrative penalties. Your immediate attention is appreciated.

Sincerely,

Steve Durrant

Steve Durrant
District Supervisor

RECEIVED
STATE CORPORATION COMMISSION
JUN - 1 1988
CONSERVATION DIVISION
Wichita, Kansas

RINE EXPLORATION COMPANY.

M. BRADFORD RINE



May 31, 1988

COPY

Mr. Steve Durrant
KANSAS CORPORATION COMMISSION
302 W. McArtor
Dodge City, KS 67801

Re: #2-18 Hineman "B"
SW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 18-19S-28W
Lane County, Kansas

Dear Mr. Durrant:

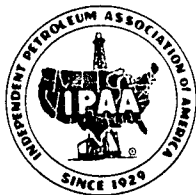
In accordance with our telephone conversation this morning, please find enclosed copies of the invoice from Allied for the cementing of the surface casing, the invoice from Halliburton for cementing and the Engineer's report regarding the completion of the #2-18 Hineman "B" well.

If you have additional questions regarding this information, please give us a call at your convenience.

Sincerely,

RINE EXPLORATION COMPANY

Ginger Kelley



xc: Kansas Corporation Commission
200 Colorado Derby Building
202 W. 1st Street
Wichita, KS 67202

316-267-1333

SUITE 645 - 300 W. DOUGLAS — WICHITA, KANSAS 67202

RECEIVED
STATE CORPORATION COMMISSION
JUN - 1 1988
CONSERVATION DIVISION
Wichita, Kansas

ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31

RUSSELL, KANSAS 67665

COPY

TO: Abercrombie Drilling Inc.
801 Union Center
Wichita, Kansas 67202

INVOICE NO. 50690
 PURCHASE ORDER NO. _____
 LEASE NAME Hineman B 2-18
 DATE Jan. 4, 1988

SERVICE AND MATERIALS AS FOLLOWS:

Common 165 sks @\$5.00	\$ 825.00	
Gel 3 sks. @\$6.75	20.25	
Chloride 5 sks @\$20.00	<u>100.00</u>	\$ 945.25
Handling 165 sks @\$0.75	123.75	
Mileage (37)173 sks @\$0.03c per sk per mi	192.03	
Surface	360.00	
Mi. @\$1.00 pmp. trk.	37.00	
1 plug	<u>40.00</u>	<u>752.78</u>

RECEIVED 138
 STATE CORPORATION COMMISSION

Total \$ 1,698.03

Cement circ. JUN - 1 1988

CONSERVATION DIVISION
 Wichita, Kansas
 THANK YOU

Post 1358.42

All Prices Are Net, Payable 20th of Month Following Date of Invoice. % of 1% Charged Thereafter

DEPTH of Job		
Reference:	Pump TRK	360.00
	1-8 3/4 PLK	40.00
37 Miles		37.00
	Sub Total	
	Tax	
	Total	437.00

Handling 165	.75	123.75
Mileage 37		192.03
	Sub Total	
	Total	1261.03

Remarks:
 CEMENT DID CIRK
 Thank you!

Floating Equipment
 Total \$ 1698.03
 Less Disc 7 339.61
 Net 30 Days \$ 1358.42

ALLIED CEMENTING CO., INC.

No 2103

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	1-4-88	Sec.	18	Twp.	195	Range	28W	Called Out	9:00 PM	On Location	9:15 PM	Job Start	2:17 AM	Finish	3:17 AM
Lease	Hinemann	Well No.	B#2-18	Location	Dighton KS - 4E N.E.			County	LANE	State	KS				
Contractor	Co Tool														
Type Job	SUK face														
Hole Size	12 1/4		T.D.	268											
Csg.	23# 5 3/4		Depth	266											
Tbg. Size															
Drill Pipe															
Tool															
Cement Left in Csg.	15'		Shoe Joint												
Press Max.															
Meas Line	(INC)		Displace	16 1/2 BB1											
Perf.															

Owner *Rine Epler*

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 *Abexceramic DRbk Inc.*

Street *801 Union Center*

City *Wichita* State *KS 67202*

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

Purchase Order No. *(Signature) Director*

CEMENT

Amount Ordered *165 S/KS Csg. w/ 2 1/2 6 1/2 1 1/2 3 1/2 C.C.*

EQUIPMENT

Ness

Pumptrk	No. 158	Cementor	<i>EKArien</i>
		Helper	<i>J.P.</i>
Pumptrk	No.	Cementor	
		Helper	
Bulktrk	<i>65</i>	Driver	<i>John JUN - 1 1988</i>
Bulktrk		Driver	<i>Kelly</i>

Consisting of			
Common	165	5.00	825.00
Poz. Mix			
Gel.	3	6.75	20.25
COMMISSION	5	20.00	100.00
Quickset			
Sales Tax			
Handling	165	.75	123.75
Mileage	37		192.03
Sub Total			
Total			1261.03

RECEIVED STATE CORPORATION COMMISSION

CONSERVATION DIVISION
Wichita, Kansas

DEPTH of Job

Reference:	Pump TRK	360.00
	1-8 3/8 P.H.	40.00
	37 Miles	37.00
Sub Total		
Tax		
Total		437.00

Floating Equipment

Total \$ 1698.03

Less Disc 7 339.61

Net 30 Days \$ 1358.42

Remarks: CEMENT DIP CIRK

Thank you!

CUSTOMER COPY

INVOICE
INVOICE



A DIVISION OF HALLIBURTON COMPANY

COPY

REMIT TO:
P.O. BOX 851046
DALLAS, TX 75265

INVOICE NO. 620152
DATE 01/19/1988

WELL LEASE NO.	WELL LOCATION	STATE	WELL OWNER
HINEMAN 1	LANE	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
NESS CITY	ABERCROMBIE RIG #1	CEMENT PRODUCTION CASING	01/19/1988
ACOT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
742209	DAVID PAULY		
		SHIPPED VIA	FILE NO.
		COMPANY TRUCK	52524

RINE EXPLORATION
SUITE 645 300 WEST DOUGLAS
WICHITA, KS 67202

RECEIVED
STATE CORPORATION COMMISSION
DIRECT CORRESPONDENCE TO:
COMMISSION 600
COLORADO DERBY BUILDING
WICHITA, KS 67202-0000
JUN - 1 1988

CONSERVATION DIVISION
Wichita, Kansas

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	MILEAGE	38	MI	2.10	79.80
001-016	CEMENTING CASING PUMP CHARGE	4726	FT	1,055.40	1,055.40
030-016	TYPE 5W ALUMINUM PLUG-TOP	4 1/2	IN	31.00	31.00
018-317	SUPER FLUSH	500	GAL	1.50	750.00
134	GUIDE SHOE - 4 1/2" BRD THD.	1	EA	83.00	83.00
825.201	INSERT FLOAT VALVE - 4 1/2"	1	EA	69.00	69.00
24A	FILL-UP UNIT 4 1/2"-5"	1	EA	27.50	27.50
815.19101	CENTRALIZER 4-1/2" MODEL S-4	11	EA	41.00	451.00
37	ROTO WALL CLEANER 2 1/8" SPIKE	10	EA	22.00	220.00
815.19111	EZ LOK LIMIT CLAMP 4 1/2"	13	EA	8.70	113.10
40	F.O. MULT STAGE CMTR 4 1/2" BRD	1	EA	1,155.00	1,155.00
807.93004	CEMENT BASKET 4 1/2"	1	EA	85.00	85.00
60	SPECIAL EQUIPMENT AND CHARGES	10	EA	2.00	20.00
807.0007	STANDARD CEMENT	175	SK	5.45	953.75
65	SALT	1365	LB	.073	99.65
807.6027	SALT	1000	LB	.073	73.00
73	CFR-2	124	LB	3.70	458.80
813.0141	CAL SEAL	8	SK	14.60	116.80
320	BULK SERVICE CHARGE	220	CFT	.95	209.00
800.8881	MILEAGE	375.041	TMI		262.53

RECEIVED

JAN 25 1988

***** CONTINUED ON NEXT PAGE *****

TERMS - INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE
RINE EXPLORATION CO.
CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH
FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED. CUSTOMER AGREES TO PAY INTEREST
THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER
TO EXCEED 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY

CUSTOMER COPY

INVOICE
INVOICE



A DIVISION OF HALLIBURTON COMPANY

REMIT TO:
P.O. BOX 51046
DALLAS, TX 75265

INVOICE NO.	DATE
620152	01/19/1988

WELL LEASE NO.	WELL LOCATION	STATE	WELL OWNER
HINEMAN 1	LANE	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
NESS CITY	ABERCROMBIE RIG #1	CEMENT PRODUCTION CASING	01/19/1988
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
742209	DAVID PAULY		
		SHIPPED VIA	FILE NO.
		COMPANY TRUCK	52524

RINE EXPLORATION
SUITE 645 300 WEST DOUGLAS
WICHITA, KS 67202

DIRECT CORRESPONDENCE TO:
SUITE 600
COLORADO DERBY BUILDING
WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
	INVOICE SUBTOTAL				6,313.33
	DISCOUNT-(BID) INVOICE BID AMOUNT				1,258.66- 5,054.67
	*-KANSAS STATE SALES TAX				135.54
	RECEIVED STATE CORPORATION COMMISSION JUN - 1 1988 CONSERVATION DIVISION Wichita, Kansas				
					26
					RECEIVED JAN 25 1988 RINE EXPLORATION CO.
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>				\$5,190.21

TERMS: INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED, CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE, APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO

PAULY & COMPANY
910 One Main Place
Wichita, KS 67202-1312
Phone (316) 264-0490

COPY

RECEIVED

February 15, 1988

MAR 16 1988

RINE EXPLORATION CO.



Rine Exploration
300 W. Douglas, Suite 645
Wichita, KS 67202

RE: Hineman "B" 2-18
SW SE SE Section 18-19S-28W
Lane County, Kansas

RECEIVED
STATE CORPORATION COMMISSION

JUN - 1 1988

WELL DATA

CONSERVATION DIVISION
Wichita, Kansas

LTD: 4727'
RTD: 4725'
Zero KB: 2795' (5' AGL)
Surf Csg: 8-5/8" 261'
Logs: Welox Guard Sidewall Neutron, Computer Analyzed
Log

PIPE DATA

1-18-88 Ran 115 jts. of 4.5" 10.5# J-55 8rd csg. as follows top to bottom. Total Talley = 4799.54' (2 out).

KB to top of csg.	+ 5.00'
52 jts. 4-1/2" csg.	2133.20'
1 Hal. Fo tool	2.50'
62 jts. 4-1/2"	2545.41'
1 Hal. IFV	0.00'
1 shoe jt.	41.55'
1 guide shoe	1.00'
Csg. set at (2' of bottom	4728.66'
PBTD at	4686.11'
Fo tool at	2138.20'

Centralizers at 4686', 4603', 4563', 4521', 4437', 4313',
4231', 4148', 2180', 2099'

Basket at 2158'

Scratchers at 4526'-4556', 4359'-4369' and 4339'-4349'

Circulate 1.5 hours

CEMENT DATA

Hal pump 30 bbl salt flush, 5 bbl FW spacer, 500 gal super flush K. Pump 175 sx EA-2 cement .75% CFR2 (Thixotropic). Pump at 15.5 ppg. Pump at 6 BPM. Good circ. Displace plug w/74.5 bbl. FW. Plug down @ 11:15 a.m. with 1350 psi. Holding OK 1-19-88.

COMPLETION REPORT

2-8-88 Chase Well Service MIRU DDD. Csg. swab dry. Service acid dump 300 gal. 10% Acetic acid. Electra Log perf 4541'-45' 4 SPF, 16 holes. Wait 1 hr. FL 3100' down (1100' of fillup). Swab 1 hr. rec'd 15.2 bbl oil. FL @ 3100'. 1/2 hr. test fluid @ 2500' down 2000' of fluid, rec'd 1.17 bbl gassy oil. SDON 4:30 p.m.

2-9-88 FL @ 1200' down (3342' of fillup in 15.5 hrs.) Swab test.

Hrs.	Pull	Bbls.	% Oil	
1	4	4.64	100%	Gassy
2	4	4.64	100%	
3	4	8.12	100%	
4	4	5.51	100%	
4.5	2	2.60	100%	2300' down
		31.18		

Unload used 2-3/8" tbg. from Fox 1-25 steamed and tested. Run Hal. BP. Set @ 2794'. Pull 1 jt. SDON

2-10-88 Hal. to cement FO tool. Pressure BP to 1200 psi OK. Spot 1 sx sand. Pull up open FO tool. Pump 1.5 BPM @ 1000 psi. No blow on surface csg. Close FO pressure BP to 1500 psi. Holding OK. Pump 2.5 BPM 20 bbls. Slight blow, slight returns. Pump 300 gal. super flush K. Pump 450 sx HLC, 2% CC, 1/4# flocele. Got good circulation with 275 sx out. Trace of cement when SD close to surface. Reverse out set FO tool pressure test to 1200 psi OK. Pull tbg. Circulate sand release BP. Pull 2 jts. SDON

2-11-88 Pull BP. Run tbg. & rods as follows top to bottom:

KB to top of tbg.	+ 5.00'
144 jts. used 2-3/8" 4.7# API	4551.24'
1 SN	1.10'
1 mud anchor	16.00'
Set @	4571.34'
SN RECEIVED	4558.24'

STATE CORPORATION COMMISSION

Run 180 used 3/4" rods, 2 x 1-1/4" x 12' BHD pump with 6' gas anchor. Hung on. Long stroked pumping.

Operator Name Rine Exploration Company Lease Name Hineman "B" Well # 2-18

Sec. 18 Twp. 19 South Rge. 28 West East West County Lane

WELL LOG

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
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

DST #1: 4213'-4250' (LKC H, I zone) 30-45-30-60. Strong blow, rec. 2310' sulphur water.
 IFP 194 - 787 ISIP 1109
 FFP 883 - 1044 FSIP 1109
 DST #2: 4256'-4266' (LKC J zone) 15-45-30-60. Strong blow, rec. 20' clean oil, 350' sulphur water.
 IFP 21 - 75 ISIP 1087
 FFP 140 - 162 FSIP 1087
 DST #3: 4322'-4342' (Upper L zone) 30-30-30-30. Weak blow, died in 15 min., rec. 20' socm.
 IFP 21 - 21 ISIP 97
 FFP 43 - 43 FSIP 43
 DST #4: 4338'-4385' (Lower L zone & Upper Marmaton) 30-60-30-90. Strong blow, rec. 160' clean gassy oil, 1410' sulphur water.
 IFP 118 - 432 ISIP 991
 FFP 540 - 679 FSIP 991
 DST #5: 4497'-4635' (Pawnee, Fort Scott, Cherokee) 30-60-30-60. Strong blow, gas to surface immediately on 2nd open, rec. 1170' clean gassy oil, 500' froggy muddy gassy oil (50% gas, 45% oil, 5% mud) 43 gravity oil.

Name	Top	Bottom
SAMPLE TOPS		
Anhydrite	2122	+ 673
Base Anhydrite	2153	+ 642
Heebner	3950	-1155
Lansing	3994	-1199
Mississippian	4635	-1840
RTD	4725	-1930
E-LOG TOPS		
Anhydrite	2122	+ 673
Heebner	3955	-1160
Lansing	4000	-1205
Stark	4286	-1491
Base Kansas City	4372	-1577
Marmaton	4393	-1598
Fort Scott	4541	-1746
Mississippian	4637	-1842
LTD	4727	-1932

IFP 194 - 356 ISIP 1173
 FFP 465 - 562 FSIP 1130

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"	23#	268'	Common	165	2% gel, 3% cc.
Production	7 7/8"	4 1/2"	10 1/2#	4729'	FA-2	175	3/4 of 1% CFB-2

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

4	4541' - 4545'	300 gal. 10% acetic acid	
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TUBING RECORD Size 2 3/8 Set At 4550 Packer at — Liner Run Yes No

Date of First Production 02/18/88 Producing Method Flowing Pumping Gas Lift Other (explain).....

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
<u>75</u> Bbls	<u>—</u> MCF	<u>—</u> Bbls	<u>—</u> CFPB		

METHOD OF COMPLETION Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify)
 Used on Lease Dually Completed Conmingled

4541 - 4545
Fort Scott

