

ORIGINAL

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

Operator: License # \_\_\_\_\_

Name: Trans-Western Operating Co

Address PO 276

City/State/Zip Golden CO 80402

Purchaser: SI

Operator Contact Person: Douglas Isern

Phone (303) 446-0828

Contractor: Name: Ata-Fin Drilling Co. TAT Well Service

License: 9343

Wellsite Geologist: Russell Bak

Designate Type of Completion  
 New Well  Re-Entry  Workover

- Oil  SMD  SLOW  Temp. Abd.
- Gas  ENHR  SIGW
- Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Reentry: Old Well Info as follows:

Operator: Trans-Western Operating Co

Well Name: BHY #1-20

Comp. Date 9-16-89 Old Total Depth 5300

- SQUEEZED WITH CEMENT
  - Deepening  Re-perf.  Conv. to Inj/SMD
  - Plug Back  PBD
  - Commingled  Docket No. \_\_\_\_\_
  - Dual Completion  Docket No. \_\_\_\_\_
  - Other (SMD or Inj?)  Docket No. \_\_\_\_\_
- 3-16-90 4/28/90

Date of START Date Reached TD  Completion Date OF WORKOVER

API NO. 15- 199-20178 0001

County Wallace

NE-NW Sec. 20 Twp. 15s Rge. 42  E  W

4680 Feet from  N (circle one) Line of Section

3730 Feet from  W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
NE,  SE, NW or SW (circle one)

Lease Name BHY Well # 1-20

Field Name \_\_\_\_\_

Producing Formation Morrow

Elevation: Ground 3935 KB 3940

Total Depth 5300 PBDT \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 8 5/8 @ 362 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 2006 Feet

If Alternate II completion, cement circulated from unable squeeze  
feet depth to 1550-1570 w/ 100 SxS + 100 Sx down Backside BX CNT.

Drilling Fluid Management Plan REWORK JH 8-18-97  
(Data must be collected from the Reserve Pit)

Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls

Dewatering method used RECEIVED  
KANSAS CORPORATION COMMISSION  
Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name \_\_\_\_\_ MAY 05 1997

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_  
Quarter Sec. \_\_\_\_\_ Twp. WICHITA S Rng. \_\_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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.

This form replaces ACO-1 filed 6-28-90 sent by KCC ATTORNEY HENETO

Signature \_\_\_\_\_ Title President Date 4/14/97

Subscribed and sworn to before me this 14th day of April, 19 97.

Notary Public Greg Kuben

Date Commission Expires 8-22-97

K.C.C. OFFICE USE ONLY

F  Letter of Confidentiality Attached  
 C  Wireline Log Received  
 C  Geologist Report Received

Distribution  
 KCC  SMD/Rep  NGPA  
 KGS  Plug  Other (Specify)

SIDE TWO

Operator Name Trans Western Operating Co

Lease Name BHY

Well # 1-20

Sec. 20 Twp. 15 Rge. 42  
 East  
 West

County Wallace

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.)  
List All E.Logs Run: Newton Density Radiation Log

Log Formation (Top), Depth and Datums  Sample  
Name Top Datum  
MORROW SHALE 5058'  
MORROW SAND 5105'  
MORROW LIME 5132'  
ST. GENEVIEVE 5198'  
ST. LOUIS 5261'

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
<u>Surface</u>	<u>12 1/4"</u>	<u>8 5/8"</u>	<u>24#</u>	<u>362</u>	<u>Lite Common</u>	<u>125</u> <u>75</u>	<u>3% CaCL</u>
<u>Production</u>	<u>7 7/8"</u>	<u>5 1/2"</u>	<u>15.5#</u>	<u>5299</u>	<u>Sur Fill</u>	<u>150</u>	

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	<u>1550-1570</u>		<u>2000XS</u>	<u>"A" Poz-mix CaCL</u>

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
<u>4</u>	<u>5124-30</u>		
<u>4</u>	<u>5112-5126</u>		
<u>4</u>	<u>1550-1570</u>	<u>For Squeeze</u>	

TUBING RECORD Size Set At Packer At Liner Run  Yes  No

Date of First, Resumed Production, SMD or Inj. SIGW 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: METHOD OF COMPLETION  Vented  Sold  Used on Lease (If vented, submit ACO-18.)  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) Shut in Production Interval 5112'-5130'

This form shall be filed in duplicate with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within ten days after the completion of the well, regardless of how the well was completed.

Attach separate letter of request if the information is to be held confidential. If confidential, only file one copy. Information on side one will be of public record and side two will then be held confidential.

Circle one: Oil, Gas, Dry, SWD, OWWO, Injection. Type and complete ALL sections. Applications must be filed for dual completion, commingling, SWD and injection, T.A.

Attach wireline logs (i.e. electrical log, sonic log, gamma ray neutron log, etc.) KCC # (316) 263-3238. (Rules 82-2-105 & 82-2-125)

ORIGINAL

OPERATOR Trans-Western Operating Co

API NO. 15-199-20178

ADDRESS Box 276 Golden, CO

COUNTY Wallace

FIELD Stockholm

\*\*CONTACT PERSON Douglas J. Isern

PROD. FORMATION Morrow

PHONE 303-279-2995

LEASE B.H.Y.

PURCHASER None

WELL NO. 1-20

ADDRESS \_\_\_\_\_

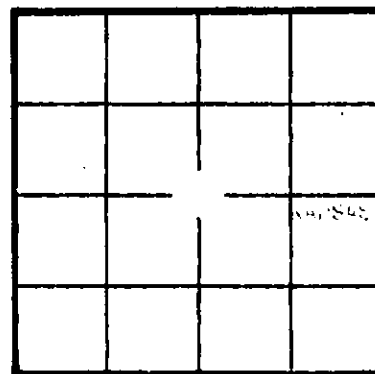
WELL LOCATION NENW Sec. 20, T15S, R42W

4680 Ft. from South Line and

3730 Ft. from East Line of

the SEC. 20 TWP. 15 S RGE. 42 W

WELL PLAT



KCC \_\_\_\_\_  
KGS \_\_\_\_\_  
(Office Use)

RECEIVED CORPORATION COMMISSION

MAY 05 1997

CONSERVATION DIVISION WICHITA, KS

PLUGGING \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

ADDRESS \_\_\_\_\_

TOTAL DEPTH 5300 PBTD \_\_\_\_\_

SPUD DATE 8/25/89 DATE COMPLETED 9/16/89

ELEV: GR 3935 DF \_\_\_\_\_ KB 3940

DRILLED WITH (CABLE) (ROTARY) (AIR) TOOLS

Amount of surface pipe set and cemented 356 DV Tool Used? no

AFFIDAVIT

STATE OF Colorado, COUNTY OF Jefferson SS, I, \_\_\_\_\_

Douglas J. Isern OF LAWFUL AGE, BEING FIRST DULY SWORN UPON HIS OATH,

DEPOSES THAT HE IS President (FOR)(OF) Trans-Western Operating Co.

OPERATOR OF THE B.H.Y #1-20 Well LEASE, AND IS DULY AUTHORIZED TO MAKE

THIS AFFIDAVIT FOR AND ON THE BEHALF OF SAID OPERATOR, THAT WELL NO. BHY #1-20 ON

SAID LEASE HAS BEEN COMPLETED AS OF THE 16th DAY OF September, 1989, AND THAT

ALL INFORMATION ENTERED HEREIN WITH RESPECT TO SAID WELL IS TRUE AND CORRECT.

FURTHER AFFIANT SAITH NOT.

SUBSCRIBED AND SWORN BEFORE ME THIS 28th DAY OF June, 1990.

[Signature]  
NOTARY PUBLIC

MY COMMISSION EXPIRES: June 11, 1994

The person who can be reached by phone regarding any questions concerning this information. Within 45 days of completion, a witnessed initial test by the Commission is required if the well produces more than 25 BOPD or is located in a Basic Order Pool.

**SIDE TWO**

**WELL LOG**

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
Morrow Ss. (gas)	5105	5130	Morrow Sh. Morrow Ss. Morrow Ls. St. Gen. St. Louis	5058 5105 5132 5198 5261
<b>ORIGINAL</b>				

RECEIVED  
KANSAS CORPORATION COMMISSION

MAY 05 1997

CONSERVATION DIVISION  
WICHITA, KS

Report of all strings set — surface, intermediate, production, etc. **CASING RECORD** (New) or (Used)

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives
surface	12 1/2"	8 5/8"	24#	362	Lite Common	125 75	3 % CaCl "
production	7 7/8"	5 1/2"	15.5#	5299	Surfill	150	

**LINER RECORD**

**PERFORATION RECORD**

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			4		5124-30

<b>TUBING RECORD</b>		
Size	Setting depth	Packer set at

**ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD**

Amount and kind of material used	Depth interval treated
Squeezed 1550-1570', with 100 sxs and 100 sxs down back side	

Date of first production <b>SIGW</b>	Producing method (flowing, pumping, gas lift, etc.) flowing	Gravity
<b>RATE OF PRODUCTION PER 24 HOURS</b>	Oil Gas 2,960 MCF	Water % Gas-oil ratio CFPB
Disposition of gas (vented, used on lease or sold) shut-in	Perforations 5124-30	



P.O. Box 4442  
Houston, Tx. 77210

CUSTOMER COPY

**SERVICE OPERATIONS CONTRACT**  
TERMS NET 30 DAYS FROM DATE OF CONTRACT

REMIT TO: P.O. Box 100806, Houston, Tx. 77212

DATE: 4-28-90  
SERVICE CONTRACT NO.: 609727

CUSTOMER ACCOUNT NO.		DIST NAME: <i>Dakley</i>		NEW WELL <input checked="" type="checkbox"/>	WELL TYPE: <i>0</i>	JOB NUMBER	
CUSTOMER: <i>Transwestern/BH/1-</i>		DIST NUMBER: <i>253320</i>		WELL NO.: <i>1-20</i>	LEASE NAME & FEDERAL OFFSHORE LEASE NO.: <i>BHY</i>		
ADDRESS				COUNTY/PARISH: <i>Wallace</i>	CODE	STATE: <i>KS</i>	CODE
CITY	STATE	ZIP		FIELD NAME	CITY CODE		
AUTHORIZED BY: <i>Wayne Stack</i>			ORDER NO.	WELL OWNER: <b>ORIGINAL</b>			MTA CODE
STAGE NO.	JOB CODE: <i>Squeeze</i>	WORKING DEPTH: <i>1560</i>	FT	PUMPING EQUIPMENT		TIME (A OR P)	DATE
TOTAL PREV. GALS.	1 SURFACE <input type="checkbox"/> 2 INTERMEDIATE <input type="checkbox"/> 3 PRODUCTION <input type="checkbox"/> 4 REMEDIAL <input type="checkbox"/>			TRUCK CALLED	<i>11:00 A</i>	MM	DD
TOTAL MEAS. DEPTH	SIZE HOLE	DEPTH	FT	ARRIVED AT JOB	<i>11:30 A</i>	<i>4/28</i>	<i>90</i>
FT.	SIZE & WT. CASING: <i>5 3/8 15.5</i>	DEPTH	FT	START OPERATION	<i>12:30 P</i>	<i>4/28</i>	<i>90</i>
PRI SSURT	SIZE & WT. DRILL PIPE OR TUBING: <i>2 7/8</i>	DEPTH	FT	FINISH OPERATION		<i>4/28</i>	<i>90</i>
AVG PSI	PACKER DEPTH: <i>1449</i>	FLUID PUMPED		TIME RELEASED		<i>4-28-90</i>	
MAX PSI				MILES FROM STATION TO WELL: <i>75</i>	SALESMAN NUMBER		
MAX. BPM	CUSTOMER INSTRUCTIONS FOR DISPOSAL OF RETURNED CEMENT						
S/S EMPLOYEE NUMBER							
<i>60-9262</i>							

REMARKS

**CONTRACT CONDITIONS:** (This contract must be signed before the job is commenced or merchandise is delivered)  
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of BJ SERVICES.

PRICE BOOK: *04* SIGNED: *Wayne Stack*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

PRICE BOOK REF NO	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	PRICE EXTENSION
1 101101211115	1	Price of Job	879.00	rc	879.00
2 1101101910105	150	PTM 75 Dakley	1.10	RT	165.00
3 101411015104	120	Class A	6.00	sk	720.00
4 101411510118	80	Poz mix	3.62	sk	289.60
5 101411510149	240	CaCl Disposal 15 3/4 5 1/2	3.95	16s	958.60
6 101881010185	200	Drayage	.95	sk	190.00
7 1019141011011	652.5	Per Ton mile 8.7 Tons	.70	TH	456.75
8					2793.95
9		20% Disc			558.79
10					2235.16

SERVICE REPRESENTATIVE: *Wm Fitzgerald* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: **MAY 05 1997**

CHECK IF CONTINUATION IS USED (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

CUSTOMER: This is not an invoice - This Service Operations Contract is subject to review and CONSERVATION BY YOUR ACCOUNTING Department.

ES

# LOAD SHEET

(2)

JOB NUMBER	CONTRACT NUMBER	DATE	DIRECT SHIPMENT FROM	DISTRICT NAME
	609727	4-28-90	Oakley	

CUSTOMER NAME AND ADDRESS	DIRECT SHIPMENT FROM
Transwestern BNY 1-20	VENDOR NAME
	<b>ORIGINAL</b>

Item No.	Part Number	Description	UNIT OF MEASURE	AMOUNT LOADED	DIRECT SHIPPED	AMOUNT RETURNED
1	410504	Class A	sk	120		
2	415018	Per. mix	sk	80		
3	415049	CaCl	lbs	240		
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						

**RECEIVED**  
 KANSAS CORPORATION COMMISSION  
 MAY 05 1997  
 CONSERVATION DIVISION  
 WICHITA, KS

COPY 1 - DISTRICT COPY.

# BJ-TITAN SERVICES

P.O. BOX 4442 HOUSTON, TX 77210

# CEMENTING LOG

STAGE NO. \_\_\_\_\_

## ORIGINAL

Date 4-28-90 District Oakley Ticket No. 609727  
 Company Texas Western Rig \_\_\_\_\_  
 Lease BAY Well No. 1-20  
 County Wallace State KS  
 Location West 34-85-NE-Sim Field \_\_\_\_\_

CASING DATA: PTA  Squeeze   
 Surface  Intermediate  Production  Liner   
 Size \_\_\_\_\_ Type \_\_\_\_\_ Weight \_\_\_\_\_ Collar \_\_\_\_\_

Casing Depths: Top \_\_\_\_\_ Bottom \_\_\_\_\_

Drill Pipe: Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size \_\_\_\_\_ T D \_\_\_\_\_ ft P.B. to \_\_\_\_\_ ft.

### CAPACITY FACTORS

Casing: Bbls/Lin ft. .0238 Lin ft/Bbl \_\_\_\_\_  
 Open Holes: Bbls/Lin ft. \_\_\_\_\_ Lin ft/Bbl \_\_\_\_\_  
 Drill Pipe: Bbls/Lin ft. \_\_\_\_\_ Lin ft/Bbl \_\_\_\_\_  
 Annulus: Bbls/Lin ft. .0158 Lin ft/Bbl \_\_\_\_\_  
765 Bbls/Lin ft. .0058 Lin ft/Bbl \_\_\_\_\_  
 Perforations From 1560 ft to 1561 ft Amt. \_\_\_\_\_

### CEMENT DATA

Spacer Type: \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG \_\_\_\_\_

LEAD: Pump Time \_\_\_\_\_ hrs. Type 60/40  
3200 Excess \_\_\_\_\_

Amt. 200 Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG \_\_\_\_\_

TAIL Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_

Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG \_\_\_\_\_

WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls.

Pump Trucks Used 2751

Bulk Equip. 272

Float Equip Manufacturer \_\_\_\_\_

Shoe Type \_\_\_\_\_ Depth \_\_\_\_\_

Float Type \_\_\_\_\_ Depth \_\_\_\_\_

Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_

Stage Collars \_\_\_\_\_

Special Equip \_\_\_\_\_

Disp Fluid Type \_\_\_\_\_ Amt. \_\_\_\_\_ Bbls. Weight \_\_\_\_\_ PPG \_\_\_\_\_

Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG \_\_\_\_\_

COMPANY REPRESENTATIVE \_\_\_\_\_

CEMENTER F.S.

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS	
	AM&PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period		RATE Bbls Min
11:30	am		Center	True			Open Location & Setup Trks
12:00	pm						Project Safety meeting
4:25							
12:15	pm						Pressure plug to 1000 PSI release
12:20	3:40	pm					Spent Sand (supplied by Hight) 15/15
1:00	pm						Set packer @ 1449 ft pressure Ann to 500 PSI
1:10	pm						mix 100 sks 60/40 with 3% C&G
1:15	pm						Displace out the mud in 4
2:40	pm						mix 100 sks 60/40 displing down 878 cas
3:30	pm						Discharge Squeeze to
							Job finished
							Displaced 10% Bbls out the on Squeeze

RECEIVED  
 KANSAS CORPORATION COMMISSION

MAY 05 1997

FINAL DISP. PRESS: \_\_\_\_\_ PSI BUMP PLUG TO \_\_\_\_\_ PSI BLEEDBACK \_\_\_\_\_

Form No. SR 0502 (Rev. 7/85)  
 Note: Must accompany job ticket.  
 SB3030 (Rev. 12/89)

CONSERVATION DIVISION  
 WICHT... THANK YOU

Mike Hayden  
Governor

Keith R. Henley  
Chairman

Rich Kowalewski  
Commissioner

Jack Shriver  
Commissioner

Judith McConnell  
Executive Director

Frank A. Caro Jr.  
General Counsel



# Kansas Corporation Commission

ORIGINAL

June 21, 1990

Trans-Western Petroleum, Inc.  
ATTN: James F. Marquis  
P.O. Box 276  
Golden, Colorado 80402

Re: B. H. Y. #1-20  
API # 15-199-20,178  
N/2 NW/4 Sec 20-15S-42W  
Wallace County

Dear Mr. Marquis:

By letter, dated December 21, 1989, you were granted an extension of 60 days to complete the Alternate II cementing on the above referenced well. This extension also applied to the filing of the ACO-1 Well Completion Report. The letter also required certain logs to be run.

This extension expired on February 25, 1990. I can find no record of the Wichita office receiving the ACO-1 Well Completion Report and associated logs and cementing tickets on this well.

Please submit the ACO-1 and attachments, to my attention, within 15 days of this letter. If I have not received the ACO-1 within 15 days, I will turn this matter over to the compliance department.

Failure to file the ACO-1 may result in an administrative penalty of \$500. Failure to complete the Alternate II cementing will result in a \$5000 administrative penalty.

Sincerely

A handwritten signature in cursive script that reads "Dennis Anderson".

Dennis Anderson  
Engineer

cc: District #4  
Compliance  
File

RECEIVED  
KANSAS CORPORATION COMMISSION

Enclosure: Extension letter

MAY 05 1997

CONSERVATION DIVISION  
WICHITA, KS

Conservation Division  
Shari Feist Albrecht  
Director

200 Colorado Derby Bldg.  
202 W. 1st Street  
Wichita, KS 67202-1286  
Telephone (316) 263-3238





**TRANS - WESTERN PETROLEUM, INC.**

April 20, 1990  
by FAX

Kansas Corporation Commission  
Oil and Gas Conservation Division  
District 4 Office  
2301 East 13th Street  
Hays, Kansas 67601  
Attn: Mr. Don Butcher

RE: BHY #1-20 Well  
NW/4 Section 20-15S-42W  
Wallace County, Kansas  
Alternate II Cement Job

Gentlemen:

With reference to our letter of March 21, 1990, we have been delayed in the execution of the option we chose in order to comply with the second stage cement requirement. Our engineer had scheduled this for last weekend. His father in law passed away ~~last~~ last week and he had to cancel these arrangements in order to drive back to Pennsylvania. We hope that he will be able to schedule this job within the next two to three weeks. Thank you for your patients in this matter.

Sincerely,

Trans-Western Petroleum, Inc.

Douglas J. Isern, President

*Agreed to by telephone  
4-2*





**TRANS - WESTERN PETROLEUM, INC.**

March 21, 1990  
by FAX

Kansas Corporation Commission  
Oil and Gas Conservation Division  
District 4 Office  
2301 East 13th Street  
Hays, Kansas 67601  
Attn: Mr. Don Butcher

RE: BHY #1-20 Well  
NW/4 Section 20-15S-42W  
Wallace County, Kansas  
Alternate II Cement Job

Gentlemen:

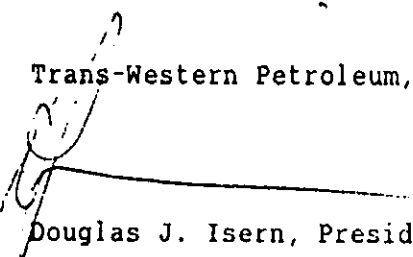
On 3/16/90 at the request of the state we ran a temperature survey in the above referenced well to ascertain if there was communication between the water bearing zones. This survey was interpreted by Cable Inc. who concluded that there was no evidence of communication of any zones from surface down to 2200 feet. A copy is attached of their letter along with the survey. On March 2, I traveled to Colby to meet with Don Butcher to discuss the results of the survey and the wishes of the State in this matter. Mr. Butcher outlined three options open to us in order to comply with the second stage cement obligations:

- A) We could request a hearing for a determination from the KCC.
- B) We could provide evidence through SP and resistivity logs that the Dakota was greater than 20,000 ppm chlorides and therefore unusable in this area.
- C) Or, we could squeeze the Dakota by perforating between 1550 and 1570 and displacing 100sxs of cement through the perforations and 100sxs down the backside.

In accordance with these options we would like to elect option "C" in order to comply in full with the second stage cement requirement. Thank you very much.

Sincerely,

Trans-Western Petroleum, Inc.

  
Douglas J. Isern, President

FAX cc: Shari Fiest



**TRANS - WESTERN PETROLEUM, INC.**

February 2, 1990

Kansas Corporation Commission  
Oil and Gas Conservation Division  
Colorado Derby Building, Suite 200  
200 West First Street  
Wichita, Kansas 67202  
Attn: Ms. Shari Feist Albrecht

RE: BHY #1-20 Well  
NW/4 Section 20-15S-42W  
Wallace County, Kansas  
Alternate II Cement Job

Gentlemen:

The subject well was completed as a well capable of producing dry gas from perforations from 5124 feet to 5130 feet in the upper Morrow sand. Flow was gauged at 2.96 MMCFD after twenty four hours, with an established shut-in tubing pressure of 590 psi. Gas analysis shows a heating value of 500 BTU/cf with 59% nitrogen. The well will remain shut in until a market can be developed.

A Baker port collar was installed in the 5 1/2 inch production casing at a depth of 2006' for the purpose of conducting an Alternate II cement job. Dakota sand is from 1490 feet to 1670 feet, and Cheyenne from 1820 feet to 1850 feet. Surface casing is 8 5/8 inch set at 362 feet and cemented to surface, with returns. Severe lost circulation problems were encountered while drilling from 368 feet to 850 feet and again from 2000 feet to 2045 feet.

An attempt to complete the Alternate II cement job was made on December 16 and 17, 1989. A retrievable bridge plug was set at 4000 feet to isolate the Morrow perforations. The port collar was then opened and pressured repeatedly to 1000 psi without any leak off. The casing was then perforated above the port collar at 1996 feet and again from 1991 to 1992 feet. Pressure was applied to 1500 psi without any leak off. A variable density bond log was then run from 2050 feet to surface. This log shows probable bridges at 1868 feet to 1876 feet and at 1142 feet to 1146 feet, with high amplitude readings at numerous intervals in between. A free point was then established at approximately 1200 feet by pulling 12 inch of stretch in the casing with 100,000 pounds of pull.

Our conclusion is that the Dakota and Cheyenne sands are effectively isolated behind pipe between the intervals of 1145 feet and 1870 feet, and any attempt to pump cement between this interval would likely entail a breakdown of these formations. This would be counter-productive to protecting these zones. Further additional perforations in the casing could also provide



Kansas Corporation Commission  
BHY #1-20 Alternate II Cement Job  
February 2, 1990  
Page 2 of 2

communication avenues for either the Morrow gas to charge the Dakota, or, conversely, Dakota water to invade the Morrow, should the cement squeeze channel or deteriorate at some later date.

We believe the objectives of isolating the Dakota and Cheyenne (and Ogallala) can best be accomplished by limiting additional perforations to a point above the freepoint and highest identifiable bridge (perforate at 1130 feet), and circulating cement to surface. A temperature survey would be run following this cement stage to confirm the placement of this cement column.

Thank you for your consideration of this proposal.

Sincerely yours,

TRANS-WESTERN PETROLEUM, INC.

James F. Marquis  
Land Manager

JFM/hos

cc: Mr. Don Butcher  
District 4, Hays, Kansas



**TRANS - WESTERN PETROLEUM, INC.**

December 29, 1989

Kansas Corporation Commission  
Oil and Gas Conservation Division  
202 West 1st Street, Suite 200  
Wichita, Kansas 67202

Attn: Ms. Shari Feist Albrecht

RE: BHY #1-20 Well  
NW/4 Section 20-155-42W  
Wallace County, Kansas

Dear Ms. Albrecht,

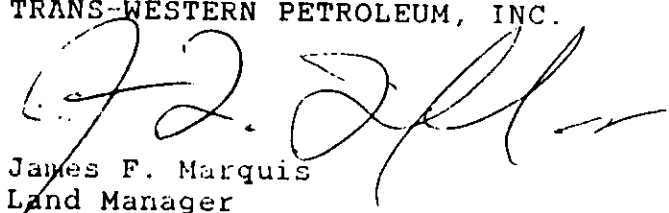
We are in receipt of your letter dated December 21, 1989 in which you grant us an extension of time to comply with the provisions of K.A.R. 82-3-106. We appreciate your consideration in granting us this additional time.

In order to clarify your request that we conduct a temperature gradient survey in the referenced well, in the event that this survey should indicate that there is no water flow from any usable water bearing zones, and that these zones are effectively isolated and sealed, will this be sufficient to achieve compliance with the requirements of K.A.R. 82-3-106?

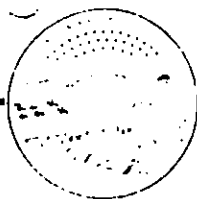
Thank you for your time and attentions in this matter.

Sincerely yours,

TRANS-WESTERN PETROLEUM, INC.

  
James F. Marquis  
Land Manager

JFM/hos



Kansas Corporation Commission

KEITH D. GIBBY	CHAIRMAN
BILL KOWALEWSKI	COMMISSIONER
MARGARET WRIGHT	COMMISSIONER
JUDITH M. COOPER	DISTRICT DIRECTOR
LEONARD A. SAFFER	DISTRICT DIRECTOR

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

December 21, 1989

James F. Marquis  
 Trans-Western Petroleum, Inc.  
 P.O. Box 276  
 Golden, Colorado 80402

Re: BHY #1-20  
 N/2 NW/4 20-15S-42W  
 Wallace County, Kansas

Dear Mr. Marquis:

This letter is written to inform you that you have been granted a 60-day extension of time to complete Alternate II cementing on the above described well.

Your original 120 days for completion expires on December 27, 1989. Your 60-day extension will expire on February 25, 1990. As a condition of granting this extension, I must request that you run a log to determine the temperature gradient in the well within three weeks from the date of this letter. Before running the log and completing the cementing of this well, please contact the Hays District Office at (913) 628-1200.

Extension of this time frame pursuant to K.A.R. 82-3-106, automatically extends the time period for filing the ACO-1, pursuant to K.A.R. 82-3-130.

If you have any questions in this regard, please do not hesitate to contact me. Thank you for your cooperation.

Sincerely,

Shari Feist Albrecht  
 Director

SFA:nao  
 cc: Don Butcher  
 Dennis Anderson  
 Dave Williams  
 Kris Moore  
 Janice Martin



**TRANS - WESTERN PETROLEUM, INC.**

BY UPS NEXT DAY MAIL

December 20, 1989

Kansas Corporation Commission  
Oil and Gas Conservation Division  
202 West 1st Street, Suite 200  
Wichita, Kansas 67202  
Attn: Ms. Shari Feist Albrecht

RE: Alternate II Cementing: Request for Extension  
BHY #1-20 Well, N/2NW/4 Section 20-15S-42W  
Wallace County, Kansas

Dear Ms. Albrecht,

Pursuant to K.A.R. 82-3-106, as supplemented, Trans-Western Operating Company, operator (#8458) of the above referenced well, attempted to complete the Alternate II cementing procedure to protect the usable water zones as set for District 4 this past week. Due to problems in the well bore, our attempts to complete this cementing procedure were unsuccessful. We were unable to displace any cement through the port collar into the annular space between the well bore and the production casing string, due to blockage most likely caused by heaving and sloughing shale material. A subsequent perforation of the casing string above the port collar and attempt to displace cement through these perforations yielded like results.

As the 120 day period provided pursuant to the aforementioned K.A.R. 82-3-106 will expire in the near future (December 27, 1989), please accept this letter as Trans-Western Operating Company's formal request that you grant us an extension of ninety (90) days in which to comply with this regulation. This will allow us time to evaluate the condition of the well bore and plan the most effective method of achieving compliance. We have been in contact with Mr. Don Butcher of the District 4 office regarding this problem, and are copying him with this letter.

We thank you for your attention in this matter, and consideration in granting us this extension of time. If you should need anything additional in this, or if you wish to discuss the situation, please do not hesitate to contact us.

Sincerely yours,

TRANS-WESTERN OPERATING COMPANY

  
James F. Marquis  
Land Manager

JFM/hos

cc: Mr. Don Butcher, District 4

P.O. BOX 276

GOLDEN, CO 80402

(303) 279-2995



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 # 4  
2301 E. 13th St.  
Hays, Ks. 67601  
(913) 628-1200

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

Transwestern Operating Company #8458  
P.O. Box 276  
Golden, CO 80402  
303-279-2995

December 05, 1989

Re: Alternate II 120 Day Notice  
API# 15-199-20,178

Lease: B.H.Y. #1-20  
Legal: N2 NW Sec.20-15s-42w  
County: Wallace

Spud Date: August <sup>27</sup>~~12~~, 1989

Expiration Date: December <sup>27</sup>~~12~~, 1989

The Kansas Corporation Commission issued an order on March 29, 1985, Docket #34,780C (C-1825) supplementing K.A.R. 82-3-106, which requires:

- 1.) The Alternate II cementing (top stage) be performed with 120 days of the well's spud date.
- 2.) The order specifically requires a blend of Portland Cement to be used in the Alternate II cementing (top stage).
- 3.) The cement is to be placed at a minimum of fifty feet (50) below all usable water and circulated to the surface. Fifty feet (50) in Dist.# 4 is fifty feet (50) below the base of the Dakota Fm.
- 4.) District #4 office is to be informed ahead of time giving the time and the date of Alternate II cementing, so that a KCC field agent may observe cementing if so desired.

Our records indicate that the deadline or expiration date for Alternate II cementing of the above captioned well is very near or has passed. Failure to meet the Alternate II cementing requirements may result in a fine of up to \$5,000.00.

If you have completed the Alternate II (top stage) or have plugged the subject well:

- 1.) Call the Dist. #4 office and give the completion date, time, amount of cement and cement company.
- 2.) Insure the Affidavit of Completion (ACD-1) has been properly completed and submitted to the Wichita KCC office.
- 3.) If the ACD-1 is submitted after the due date, you will have to include (a) a bond log and (b) cement tickets and job log for proof of completion.

If you have any questions please contact the Dist. #4 office in Hays, KS.

Sincerely,  
*Don Butcher*

Don Butcher  
District Geologist

Marion Schmidt,  
Alternate II Coordinator  
1-913-628-1200

cc: File



J. F. KERKER  
President



Telephones  
303-522-4761 - 522-4764

**PRODUCTION ENGINEERING**

440 - 442 SOUTH FRONT STREET  
BOX 590  
STERLING, COLORADO 80751

March 21, 1990

Trans-Western Pet. Inc.  
P.O. Box 276  
Golden, CO 80402

Attn: Douglas J. Isern (President)

Dear Sir:

After reviewing the exploded view of the log on the BHY #1-20 Temperature Survey it does not appear to me that there is any communication between the Two Water Bearing Zones on the outside of the casing.

If you have any questions regarding this please feel free to call me at (303) 522-4761.

Sincerely,

CABLE INC.

A handwritten signature in cursive script that reads "Dennis O. Donoho".

Dennis O. Donoho  
Coordinator

DOD/dmc

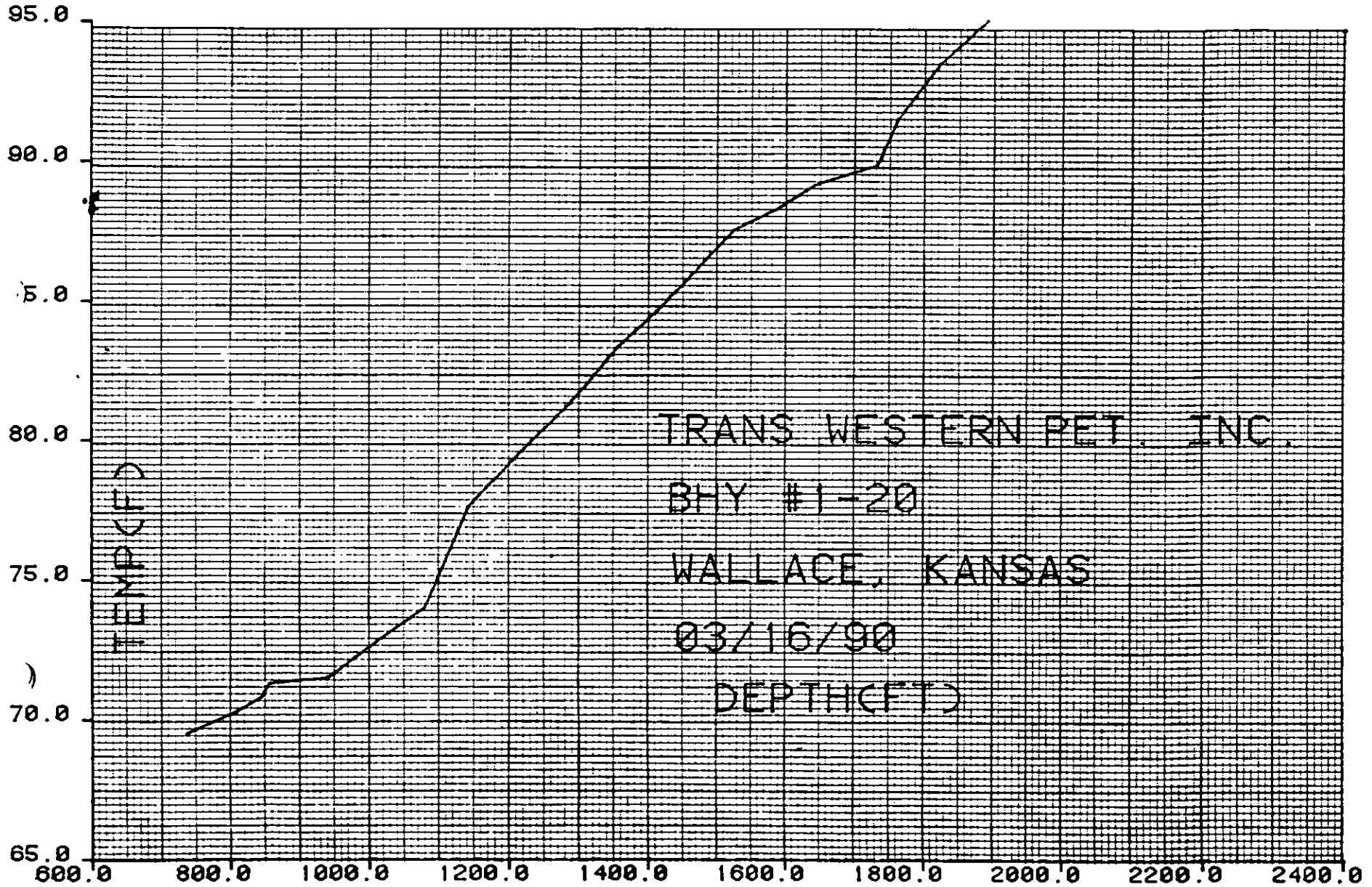
enc.



STERLING, CO 80751  
(303) 522-4761

10 x 10 TO 1/4 INCH  
6 x 9 INCHES

FILE# 31WCBHY-



CONDENSED VERSION SHOWING WATER BEARING ZONES

CABLE INC.  
P.O. BOX 590 STERLING, COLO. 80751  
(303) 522-4761

SUB-SURFACE TEMPERATURE SURVEY

COMPANY	TRANS WESTERN	RUN 31 FIELD WC	WELL NAME	BHY-#1-20	
COUNTY	WALLACE	WELL STAT	SHUT IN	TOOL HUNG	2200
STATE	KS.	CASING PRESS	Ø	ON BOTTOM	1136 031690
LINER	-	TUBING PRESS	Ø	OFF BOTTOM	1140 031690
DATE	031690	ELEMENT RANGE	33 - 233	ZERO POINT	ØL+5'
ELEVATION		ZONE		SHUT-IN	
MAX TEMP	100.9 F	PICK-UP/TD		ON-PROD	
PERF	-	CAL SER NO.	12147	MPP	
TUBING	-				
UNITS	ENGLISH	PURPOSE	TEMPERATURE SURVEY		

SURVEY DATA

COMPANY TRANS WESTERN				RUN 31 FIELD WC				WELL NAME BHY-#1-20			
TIME	DEPTH	TEMP	GRAD	TIME	DEPTH	TEMP	GRAD	TIME	DEPTH	TEMP	GRAD
0:12	1890	95.0	0.000	0:32	1286	81.3	.029				
0:14	1820	93.4	.023	0:34	1213	79.5	.025				
0:16	1760	91.4	.033	0:36	1141	77.6	.026				
0:18	1730	89.8	.053	0:40	1079	74.0	.058				
0:20	1640	89.1	.008	0:42	1010	72.8	.017				
0:22	1590	88.3	.016	0:44	940	71.5	.019				
0:24	1523	87.5	.012	0:46	855	71.3	.002				
0:26	1474	86.2	.027	0:53	844	70.8	.045				
0:28	1415	84.7	.025	0:54	809	70.3	.014				
0:30	1354	83.3	.023	0:56	736	69.5	.011				

BR FILE# 31WCBHY-

TIME IS IN MINUTES.

CONDENSED VERSION SHOWING WATER BEARING ZONES

=====

Operator Transwestern Operating Co. Well No. & Name B.H.V. #1-20  
 Location 600' SALISSO' Well 20-155-42W County Dallace State Ks  
 Rig No. 3 Contractor \_\_\_\_\_ Tool Pusher \_\_\_\_\_  
 No. Drill Collars \_\_\_\_\_ Size \_\_\_\_\_ No. Joints Flex Wt. \_\_\_\_\_ Size \_\_\_\_\_ Total Wt. (Both) 308  
 Make Pump \_\_\_\_\_ Liner & Stroke \_\_\_\_\_ Max. Pressure \_\_\_\_\_  
 Approx. TD \_\_\_\_\_ Elevation \_\_\_\_\_ Spud 4:30 PM 8/25/89

Date	8/25	8/26	8/27	8/28	8/29	8/30	8/31	9/1	9/2	9/3	9/4	9/5
Days	<u>Fri</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>
Depth	<u>MTR</u>	<u>362</u>	<u>1235</u>	<u>2039</u>	<u>2039</u>	<u>2048</u>	<u>2048</u>	<u>2048</u>	<u>2830</u>	<u>3510</u>	<u>4050</u>	<u>4390</u>
Ft. Cut	<u>(MOC)</u>	<u>362</u>	<u>873</u>	<u>804</u>	<u>0</u>	<u>9</u>	<u>0</u>	<u>0</u>	<u>782</u>	<u>680</u>	<u>540</u>	<u>340</u>
Down Time		<u>11:00 1/2 day</u>	<u>1/2 1/2 day</u>	<u>1/2 1/2 day</u>	<u>24:00</u>	<u>23:00</u>	<u>24:00</u>	<u>24:00</u>	<u>24:00</u>	<u>24:00</u>	<u>24:00</u>	<u>24:00</u>
Co. Time		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Bit Wt.		<u>5/10</u>	<u>20</u>	<u>15</u>		<u>20</u>			<u>25</u>	<u>30</u>	<u>35</u>	<u>✓</u>
RPM		<u>120</u>	<u>100</u>	<u>100</u>		<u>100</u>			<u>80</u>	<u>70</u>	<u>65</u>	<u>✓</u>
Pressure		<u>1100</u>	<u>700</u>	<u>800</u>		<u>700</u>			<u>1000</u>	<u>1050</u>	<u>1050</u>	<u>750</u>
Lin. & Str.		<u>—</u>	<u>2017</u>	<u>6379</u>	<u>6860</u>	<u>8597</u>	<u>9640</u>	<u>10,139</u>	<u>11,208</u>	<u>13,170</u>	<u>14,759</u>	<u>17,011</u>
SPM		<u>68</u>	<u>60</u>	<u>65</u>		<u>60</u>			<u>68</u>	<u>68</u>	<u>68</u>	<u>60</u>
Mud Wt.		<u>6.8</u>	<u>8.8</u>	<u>8.7</u>	<u>8.6</u>	<u>8.9</u>	<u>8.6</u>	<u>8.6</u>	<u>9.1</u>	<u>9.2</u>	<u>9.2</u>	<u>8.6</u>
Viscosity			<u>33</u>	<u>34</u>	<u>31</u>	<u>37</u>	<u>31</u>	<u>31</u>	<u>32</u>	<u>30</u>	<u>30</u>	<u>44</u>
Water Loss		<u>24.100</u>	<u>24.100</u>	<u>24.100</u>	<u>24.100</u>	<u>24.100</u>	<u>4.100</u>	<u>7.100</u>	<u>3.100</u>	<u>3.100</u>	<u>3.100</u>	<u>10.2</u>
Dev. Sur.		<u>4.2</u>	<u>10.850</u>	<u>10.150</u>					<u>11.2</u>	<u>11.2</u>	<u>11.2</u>	<u>11.2</u>
Formation		<u>sdsh</u>	<u>sdsh</u>	<u>sdsh</u>		<u>sl</u>			<u>sl</u>	<u>lmsl</u>	<u>msl</u>	<u>msl</u>
Weather		<u>pc</u>	<u>cl</u>	<u>cl</u>	<u>fog</u>	<u>cl</u>	<u>cr</u>	<u>pe</u>	<u>hrain</u>	<u>cl</u>	<u>cl</u>	<u>cl</u>

F. NO.	SIZE	TYPE	OUT	FT.	HRS.	CUM. HRS.	BIT COND.			TOPS
1	12.74	Sec SDS	362	362	4					RR Anhyd 2809-2845'
1	7 7/8	H-ATS22	2755	2753	2 1/2	3 1/2				R2028
2		H-ATS22	5300	2545	11 1/4	14 3/4	2	4	1	B444K

HC - 5:00 AM 9/5/89  
 HC - 11:30 AM 9/7  
 Logging tool stuck @ 5104' @ 11:00 AM 9/8 - on repeat run.  
 Well on side door bumper -> Electric logs idea +  
 will supervise  
 9/9 - GIH w/ bumper tool-hire slide to 5106' - trip to 5264' took on  
 wt. - chain out w/ key tool in bumper tool w/out source, hire  
 still stuck - tried to free line w/ bumper tool - free to 2000'  
 trip to TD. Call it free line. POT @ 7:00 AM

DEPTH	SIZE	SACKS	CEMENT MATERIAL	PLUG DOWN	DRILLED OUT	REMARKS
362	8 5/8	200	125 w/ 70 lb 55 common 35 lb	12:01 AM 9/26	4:00 AM 8/26	Circ. Allied
5299	5 1/2	150	Sunhill	8:00 AM 9/11		B.S.

NO.	Post-Cement Interval	OPEN	SHUT	OPEN	SHUT	BLOW	MM	ISIP	IFF	FEP	FSIP
				9/10							

Put & thread in hole to 4400' - line  
 came free @ 4:45 AM 9/9. Fresh trip in hole  
 + land run hammering box - found source on  
 bottom. Went in w/ 1/2 inch basket - no recovery - POT  
 GIH w/ 7 inch basket.

Surface Casing Furnished By: MOC  
 Accidents & Remarks: 2545-355.97  
Site Conn 4250-4289  
9/11 - Fish out of hole @ 4:45 AM 9/10.  
 MAY 05 1997  
 CONSERVATION DIVISION  
 WICHITA KS  
 Co. Truck  
 Dan R. Walsh  
 DR #1  
 Wleskan, KS 67177  
 21-8309 \$1000.00

Well No. & Name \_\_\_\_\_  
 County \_\_\_\_\_ State \_\_\_\_\_  
 Contractor \_\_\_\_\_ Tool Pusher \_\_\_\_\_  
 Collars \_\_\_\_\_ Size \_\_\_\_\_ No. Joints Flex Wt. \_\_\_\_\_ Size \_\_\_\_\_ Total Wt. (Both) \_\_\_\_\_  
 Liner & Stroke \_\_\_\_\_ Max. Pressure \_\_\_\_\_  
 ID \_\_\_\_\_ Elevation \_\_\_\_\_ Spud \_\_\_\_\_

	9/6	9/7	9/8	9/9	9/10	9/11						
	13	14	15	16	17	18						
	4810	5175	5300	5300	5300	5300						
	420	365	135	0	0	0						
Time	0	0	0	0	0	0						
ne	0	0	14	24	24	8 3/4						
	35	30	✓									
	65	100	70									
ire	900	1000	✓									
Str	18,276	✓	19,360			19,702						
	64	100	✓									
	9.1	9.1	9.1	9.3		9.3						
SITY	39	55	56	67		64						
Loss	11.2	10.0	10.4	10.8		10.8						
ur.	4810m 2.0000	4810m 2.0000	4810m 2.0000			7,0000						
CON	shlm	shlm	shlm									
of	cl	cl	cl	cl	cl	cl						

SIZE	TYPE	OUT	FT.	HRS.	CUM. HRS	BIT COND.			TOPS
						T	R	G	

SIZE	SACKS	CEMENT MATERIAL	PLUG DOWN	DRILLED OUT	REMARKS

INTERVAL	OPEN	SHUT	OPEN	SHUT	BLOW	WH	ISIP	IFP	FEP	FSIP

RECEIVED  
 KANSAS CORPORATION COMMISSION

Casing Furnished By: \_\_\_\_\_  
 Comments & Remarks: \_\_\_\_\_  
 MAY 05 1997  
 CONSERVATION DIVISION  
 WICHITA, KS

V.R. MURFIN



MURFIN  
DRILLING  
COMPANY



CONTRACTORS AND PRODUCERS

TELECOPIER COVER SHEET

FROM: Murfin Drilling Co

DATE TRANSMITTED: 3-19-90 TIME: \_\_\_\_\_

CHARGE TO: \_\_\_\_\_

DELIVER TO: Doug Bern

FIRM: Transwestern

TELECOPY PHONE NO: \_\_\_\_\_

VERIFICATION PHONE NO: \_\_\_\_\_

NUMBER of pages being sent: 3, including this cover page.

PLEASE CALL (316) 267-3241, Ext-131, if not receiving all pages.

SPECIAL INSTRUCTIONS: Drilling report - GH/ #1-20

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(WE ARE TRANSMITTING FROM A RICOH FAX 60E FAX NUMBER (316) 267-6004.)

RECEIVED  
KANSAS CORPORATION COMMISSION

MAY 05 1997

CONSERVATION DIVISION

No. 033844

DAILY DRILLING REPORT

REPORT NO.

RECEIVED  
KANSAS CORPORATION COMMISSION

MAY 05 1997

LEASE B.H.V.		WELL NO.	API WELL NUMBER		DATE 5-11-97
OPERATOR TRANSWESTERN			CONTRACTOR Mullikin Tool Co.		RIG NO. 3
SIGNATURE OF OPERATOR'S REPRESENTATIVE			SIGNATURE OF CONTRACTOR'S TOOL PUSHER		
D.P. SIZE	WT./FT.	GRADE	TOOL JT Q.D.	TYPE THREAD	STRING NO.

ORIGINAL

FIELD OR DIST.		WARRANTY	COUNTY	STATE	WIRE LINE REC.	
			Wallace	KS		
LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. NO.
FT. CUT OFF						
TON ML OR TRIPS SINCE LAST CUT						
CUMULATIVE TON ML OR TRIPS						

TIME DISTRIBUTION - HOURS				NO.	DRILLING ASSEMBLY (At end of tour)	BIT RECORD	MUD RECORD
CODE NO.	OPERATION	MORN.	DAY				
1	RIG UP AND TEAR DOWN						
2	DRILL ACTUAL				STB RMR OD	FT.	
3	REAMING				D.C. ID OD	FT.	
4	CORING				STB RMR OD	FT.	
5	CONDITION MUD & CIRCULATE				D.C. ID OD	FT.	
6	TRIPS				STB RMR OD	FT.	
7	LUBRICATE RIG						
8	REPAIR RIG						
9	CUT OFF DRILLING LINE						
10	DEVIATION SURVEY						
11	WIRE LINE LOGS						
12	RUN CASING & CEMENT						
13	WAIT ON CEMENT						
14	NIPPLE UP & O.P.						
15	TEST B.O.P.						
16	DRILL STEM TEST						
17	PLUG BACK						
18	SQUEEZE CEMENT						
19	FISHING						
20	DR. WORK						
21							
22							

MORNING TOUR

DAY TOUR

FOOTAGE		DR.-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000.
FROM	TO						
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS			
FROM	TO						
460	700			Landing pipe			
1300	1500			Set rods on base of hole			
3000	6000			Run 1200 ft 5/8" tubing			
6300	7000			Anchor pipe case			

# ORIGINAL

WELL NO.	API WELL NUMBER	DATE 7-11-89
CONTRACTOR M... .. Co.		RIG NO. 3
SIGNATURE OF CONTRACTOR'S TOOL PUSHER		
D. TYPE THREAD	STRING NO.	PUMP NO.
PUMP MANUFACTURER		TYPE
STROKE LENGTH		

FIELD OR DIST.	COUNTY Wallace	STATE KS.
LAST CASING TUBING OR LINER	SIZE	MAKE
	WT. & GR.	NO. JOINTS
	FEET	RKB. TO CSG. NO.
	SET AT	
WIRE LINE RECORD REEL NO.		
SIZE	NO. LINES	FT. SLIPPED
FT. CUT OFF		PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT		
CUMULATIVE TON MI. OR TRIPS		

DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
BIT	FT.	BIT NO.		TIME	
		SIZE		WEIGHT	
TB MR	OD	FT.	IADC CODE	PRESSURE GRADIENT	
C ID	OD	FT.	MFG.	VISC.-SEC	
TB MR	OD	FT.	TYPE	PV.YP	/ / /
C ID	OD	FT.	SER. NO.	GELS	/ / /
TB MR	OD	FT.	JETS 1/32" /TFA in <sup>2</sup>	WL.-CC'S	
			DEPTH OUT	pH	
			DEPTH IN	SOLIDS %	
FANDS DP	FT.	MUD & CHEMICALS ADDED			
NGLES DP	FT.	TOTAL FTG.	TYPE	AMT.	TYPE
ELLY DOWN	FT.	TOTAL HRS.			
OTAL	FT.	CUT. STRUC.			
STRING	LBS.	I O D L			
		B G O R			
		GPM/PUMP-PSI			

FOOTAGE		DR. D RM-R CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000+	PUMP PRESS	PUMP NO.		PUMP NO.		METHOD RUN
FROM	TO								LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	SEALS PACKED COM'D
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION			
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
FROM	TO												
4:00	3:00			4.00 - 3.00									
3:00	2:00			3.00 - 2.00									
2:00	1:30			2.00 - 1.30									
1:30	7:00			1.30 - 7.00									

FOOTAGE		DR. D RM-R CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000+	PUMP PRESS	PUMP NO.		PUMP NO.		METHOD RUN
FROM	TO								LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	SEALS PACKED COM'D
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION			
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
FROM	TO												
7:00	7:15			7.00 - 7.15									
7:15	8:15			7.15 - 8.15									
8:15	3:00			8.15 - 3.00									

MORNING TOUR

DAY TOUR

MUD & CHEMICALS ADDED