

ORIGINAL

CONFIDENTIAL

JUL (SIDE ONE)

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

FROM CONFIDENTIAL

API NO. 15- 033-20784 - 0000

County Comanche

Sw Sw NE/4 Sec. 1 Twp. 34S Rge. 16  East West

Operator: License # 30034

Name: Zinke & Trumbo, Ltd.

Address 1202 E. 33rd, Suite 100

Tulsa, OK 74105

City/State/Zip \_\_\_\_\_

Purchaser: None

Operator Contact Person: Wayne Taylor

Phone (918) 743-5096

Contractor: Name: Eagle Drilling

License: 5380

Wellsite Geologist: David Hickman

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  Temp. Abd.

Gas  Inj  Delayed Comp.

Dry  Other (Core, Water Supply, etc.)

If OWO: old well info as follows:

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

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

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

Drilling Method:

Mud Rotary  Air Rotary  Cable

5-31-90 6-11-90 6-12-90

Spud Date Date Reached TD Completion Date

2970 Ft. North from Southeast Corner of Section

2469 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

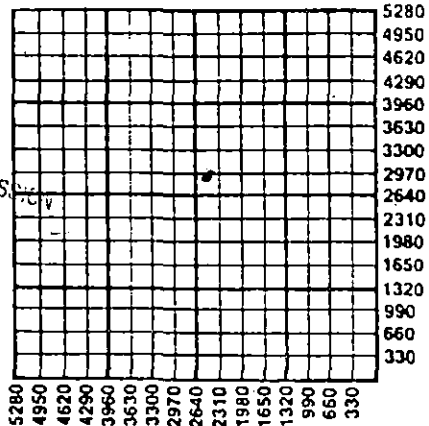
Lease Name Merrill Well # 1-1

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

Producing Formation \_\_\_\_\_

Elevation: Ground 1699 KB 1711

Total Depth 5700 PBDT None



Amount of Surface Pipe Set and Cemented at 754 Feet

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

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

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

Signature [Handwritten Signature]

Title Agent Date 6-21-90

Subscribed and sworn to before me this 21st day of June, 19 90.

Notary Public [Handwritten Signature]

Date Commission Expires \_\_\_\_\_



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)

RELEASE

JUL 02 1950

CONFIDENTIAL

SIDE TWO

Operator Name W. & Trumbo, Ltd.

Lease Name Merrill

Well # 1-1

County Comanche

Sec. 1 Twp. 34S Rge. 16  
 East  
 West

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

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Formation Description</b> <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Bottom</th> </tr> </thead> <tbody> <tr><td>Base of Heebner</td><td></td><td>4070</td></tr> <tr><td>Lansing/Kansas City</td><td>4071</td><td>4248</td></tr> <tr><td>Swope</td><td>4249</td><td>4603</td></tr> <tr><td>Hertha</td><td>4604</td><td>4648</td></tr> <tr><td>Cherokee</td><td>4649</td><td>4860</td></tr> <tr><td>Mississippian</td><td>4861</td><td>4900</td></tr> <tr><td>Kinderhook</td><td>4901</td><td>5216</td></tr> <tr><td>Woodford</td><td>5217</td><td>5256</td></tr> <tr><td>Viola</td><td>5257</td><td>5285</td></tr> <tr><td>Simpson</td><td>5286</td><td>5454</td></tr> <tr><td>Arbuckle</td><td>5455</td><td>5584</td></tr> </tbody> </table>	Name	Top	Bottom	Base of Heebner		4070	Lansing/Kansas City	4071	4248	Swope	4249	4603	Hertha	4604	4648	Cherokee	4649	4860	Mississippian	4861	4900	Kinderhook	4901	5216	Woodford	5217	5256	Viola	5257	5285	Simpson	5286	5454	Arbuckle	5455	5584
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Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																					
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																					
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																					

**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
Conductor	30	20		82			
Surface	12-1/4	8-5/8	24#	754	BJ Lite Class A	300 100	3% cc 3%CC, 2% ge

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	None	None	

**TUBING RECORD**  
 Size None Set At \_\_\_\_\_ Packer At \_\_\_\_\_  
 Liner Run  Yes  No

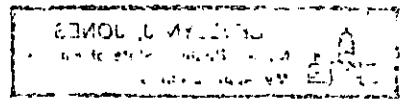
Date of First Production \_\_\_\_\_ Producing Method  Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_

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

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

**METHOD OF COMPLETION**  
 Open Hole  Perforation  Dually Completed  Commingled  
 Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_



CONFIDENTIAL

15-033-20784-0000

ORIGINAL

DEAN'S TESTERS INC.

P. O. BOX 1182  
LIBERAL, Ks. 67801

SEC. 1  
TWP. 34S  
RGE. 16W  
COUNTY Comanche  
STATE Kansas  
TICKET NO. 2893

Zinke & Trumbo, Ltd.  
OPERATOR

Merrill #1-1  
WELL NAME & NO.

**TIGHT HOLE**

TEST # 2

4862' - 4951'  
TEST INTERVAL

Formation Mississippi Type Test Conventional Date June 7, 1990

Anchor Length and Size 89'; 62' X 6" OD-D.C., 27' X 4 1/2" OD-Perf. Total Depth 4951'

Packer Depths 4857' & 4862' Below Straddle \_\_\_\_\_ Choke Size Bottom 5/8" Surface 1/4"

Equipment Run 2 Packers, Jars, Sample Chamber, Safty joint, Circ. sub.

Lengths: Tool 122' D.P. 4365' ID 3.8" Wt. P. \_\_\_\_\_ ID \_\_\_\_\_ D.C. 493' ID 2.25"

Mud Type Chemical Via 46 Wt. 9.2 Wtr. Loss 9.6 Cl. 9000 ppm

Recorders:

Depth <u>4879'</u>	Make <u>Kuster</u>	Cap. <u>6500</u>	Ser. No. <u>10269</u>	Inside
Depth <u>4885'</u>	Make <u>Kuster</u>	Cap. <u>6800</u>	Ser. No. <u>10217</u>	Outside
Depth _____	Make _____	Cap. _____	Ser. No. _____	Below Straddle

**Pressures:**

Tool on Bottom @ <u>12:25 P.M.</u>	Initial Hydrostatic <u>2405</u> psi
Initial Flow <u>30</u> Min.	IFP <u>67</u> psi to <u>67</u> psi
Initial Shut-In <u>60</u> Min.	ISIP <u>80</u> psi
Final Flow <u>60</u> Min.	FFP <u>58</u> psi to <u>58</u> psi
Final Shut-In <u>120</u> Min.	FSIP <u>129</u> psi
Tool off Bottom @ <u>4:55 P.M.</u>	Final Hydrostatic <u>2363</u> psi Temp. <u>131</u>

Blow: Weak throughout test.

Recovery: 60' Mud.

RELEASED  
JUL 0 2 1991  
FROM CONFIDENTIAL

RECEIVED  
STATE CORPORATION COMMISSION  
6-28-90  
JUN 28 1990  
CONSERVATION DIVISION  
Wichita Kansas

**Gas Flow:**

**Sampler Data:**

Pressure 30 PSI

Gas -- cu. ft.

Total Fluid 2000 cc

Oil -- cc

Water -- cc

Mud 2000 8500 PPM Cl. cc

Oil Gravity \_\_\_\_\_ @ \_\_\_\_\_ °F.

Gas/Oil Ratio \_\_\_\_\_

Remarks:

Tester Butch Young Witnessed by: Dale Padgett

CONFIDENTIAL

15-033-20784-0000

DEAN'S TESTERS INC.

ORIGINAL

P. O. BOX 1182  
LIBERAL, Ks. 67901

PHONE  
316 / 624-7340

SEC. 1

Zinke & Trumbo, Ltd.  
OPERATOR

TWP. 34S

RGE. 16W

COUNTY Comanche

STATE Kansas

TICKET NO. 2892

Merrill #1-1  
WELL NAME & NO.

**TIGHT HOLE**

TEST #

4863' - 4920'  
TEST INTERVAL

Formation Cherokee Type Test Conventional Date June 6, 1990  
 Anchor Length and Size 57'; 31' X 6" OD-D.C., 26' X 4 1/2" OD-Perf. Total Depth 4920'  
 Packer Depths 4858' & 4863' Below Straddle Choke Size Bottom 5/8" Surface 1/4"  
 Equipment Run 2 Packers, Jars, Sample Chamber, Safty joint, Circ. sub.

Lengths: Tool 90' D.P. 4335' ID 3.8" Wt. P. \_\_\_\_\_ ID \_\_\_\_\_ D.C. 524' ID 2.25"  
 Mud Type Chemical Vls. 47 Wt. 9.0 Wtr. Loss 8.8 Cl. 6000 ppm

Recorders: Depth 4880' Make Kuster Cap. 6500 Ser. No. 10269 Inside  
 Depth 4885' Make Kuster Cap. 6800 Ser. No. 10217 Outside  
 Depth \_\_\_\_\_ Make \_\_\_\_\_ Cap. \_\_\_\_\_ Ser. No. \_\_\_\_\_ Below Straddle

Pressures:  
 Tool on Bottom @ 5:40 P.M. Initial Hydrostatic 2389 psi  
 Initial Flow 30 Min. IFP 95 psi to 95 psi  
 Initial Shut-In 60 Min. ISIP 198 psi  
 Final Flow 60 Min. FFP 58 psi to 58 psi  
 Final Shut-In 120 Min. FSIP 739 psi  
 Tool off Bottom @ 10:10 P.M. Final Hydrostatic 2324 psi Temp. 129

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JUL 0 2 1991

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Blow: Weak on I.F.P., Fair increasing to good on F.F.P.

Recovery: 60' Mud.

Gas Flow:

Sampler Data:  
 Pressure 35 PSI  
 Gas -- cu. ft.  
 Total Fluid 2000 cc  
 Oil -- cc  
 Water -- cc  
 Mud 2000 6500 PPM Cl. cc  
 Oil Gravity \_\_\_\_\_ @ \_\_\_\_\_ °F.  
 Gas/Oil Ratio \_\_\_\_\_

Remarks:  
 Hit bridges @ 4200', 4250', 4450', 4530', and 4700'.  
 Clock stopped in inside recorder.

RECEIVED  
 STATE COMMISSION  
 JUN 28 1990  
 6-28-90  
 CONSERVATION DIVISION  
 Wichita, Kansas

Tester Butch Young Witnessed by: Dale Padgett

15-033-26784-0000

DRILLER'S LOG

ORIGINAL

Operator: Zinke & Trumbo Ltd.  
Lease Name: Merrill #1-1  
Spot Location: \_\_\_\_\_  
          Sec. 1-34-16  
County, State: Comanche County, KS.

Commenced: 5-31-90  
Completed: 6-11-90

Surface Casing: 754' 24 lb. API

<u>FORMATION</u>	<u>DEPTH</u>
<u>Red Bed</u>	<u>0 - 960</u>
<u>Shale</u>	<u>960 - 1545</u>
<u>Shale &amp; lime</u>	<u>1545 - 5700</u>

RELEASED  
JUL 02 1991  
FROM CONFIDENTIAL

RECEIVED  
STATE CORPORATIONS COMMISSION  
JUN 28 1990  
6-28-90  
CONSERVATION DIVISION  
Wichita, Kansas

I do hereby certify that the foregoing statements are true and correct to the best of my knowledge and belief.

EAGLE DRILLING, INC.  
*Robert L. Eisel*  
Robert L. Eisel  
Vice-President

STATE OF KANSAS     )  
COUNTY OF SEDGWICK ) ss:

Subscribed and sworn to before me this 26 day of JUNE, 1990.

LISA A. HARDERS  
NOTARY PUBLIC  
STATE OF KANSAS  
My Appt. Exp. 3-21-93

My appointment expires \_\_\_\_\_  
*Lisa A. Harders*  
Notary Public



P.O. Box 4442  
Houston, Tx. 77210

CUSTOMER COPY  
FILE

15-033-20784-0000

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

REMIT TO: P.O. Box 100800, Houston, Tx. 77212

DATE 6-11-90	SERVICE CONTRACT NO. 610810
NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>	WELL TYPE 0
JOB NUMBER 500411	LEASE NAME & FEDERAL OFFSHORE LEASE NO. Merrill
COUNTY/PARISH Comanche	CODE 007
STATE KANSAS	CODE 14
CITY CODE	MTA CODE
WELL OWNER Zinke & Trumbo	

CUSTOMER ACCOUNT NO.	DIST NAME MED LODGE KS.
CUSTOMER Zinke & Trumbo	DIST NUMBER 3350
ADDRESS 12002 E. 233rd #100	
CITY Wichita	STATE KANSAS
ZIP 74105	
AUTHORIZED BY DENNIS STUBERT	ORDER NO.
STAGE NO.	JOB CODE 0115
	WORKING DEPTH 5583 FT
TOTAL PREV. GALS.	1 SURFACE <input type="checkbox"/> 2 INTERMEDIATE <input type="checkbox"/> 3 PRODUCTION <input type="checkbox"/> 4 REMEDIAL <input type="checkbox"/>
	SIZE HOLE 7 7/8
	DEPTH 5700 FT
TOTAL MEAS. DEPTH FT.	SIZE & WT. CASING
	DEPTH
	SIZE & WT. DRILL PIPE OR TUBING 4 1/2
	DEPTH 5583 FT
AVG. PSI. 200	PACKER DEPTH
MAX. PSI. 800	FLUID PUMPED 40:60:6

CUSTOMER INSTRUCTIONS FOR DISPOSAL OF RETURNED CEMENT

MAX. BPM  
6

S/S EMPLOYEE NUMBER  
647028

ORIGINAL

REMARKS

STATE RECEIVED JUL 02 1990

JUN 28 1990 6-28-90

CONSERVATION DIVISION Wichita, Kansas

FROM CONFIDENTIAL

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 017

SIGNED: x Curt Dwall (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	UM	PRICE EXTENSION
1101101211210	1	Pump Charge	935.00	E	935.00
110110910105	70	Pump Mileage R/T	1.10	E	77.00
1101411051019	111	CLASS A	5.30	Q	588.30
1101911510118	79	FLY ASH	2.61	Q	193.14
1101912101115	950	BI GEL	11	L	104.50
110191410111011	294	DRYAGE 8.4 TON X 35MT	.70	E	205.80
11088000011	201	MIXING CHARGE	.95	Q	190.95
					2294.69
					1835.75

SERVICE REPRESENTATIVE Neal Rump

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: x Curt Dwall (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

CHECK IF CONTINUATION IS USED

CUSTOMER: This is not an invoice - This Service Operations Contract is subject to review and correction by our Accounting Department.



A Baker Hughes company

P.O. Box 4442  
Houston, Texas 77210

15-033-20784-0000

# CEMENTING LOG

STAGE NO.

JUL 02 1991

Date 06-11-90 District ALD 2092 Ticket No. 610810  
 Company Z-UK9 - Trumbull Rig EAGLE DRG #1  
 Lease DEER HARBOR - Trumbull Well No. 1-1  
 County COMANCHE State KANSAS  
 Location DEER HARBOR + 160 HWY 63 Field OK 1a  
 SURV 4725-145 TO RIG

### CEMENT DATA:

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

LEAD: Pump Time \_\_\_\_\_ hrs. Type 40:60:6  
 Excess \_\_\_\_\_

Amt. 1.85 Sks Yield 1.56 ft<sup>3</sup>/sk Density 13.9 PPG

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

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

WATER: Lead 7.8 gals/sk Tail \_\_\_\_\_ gals/sk Total 34.5 Bbls.

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

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

Pump Trucks Used BSU2901 - BSU6480 - 3C

Bulk Equip BSU2909 - BSU6483 - 2D

Drill Pipe: Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_

Open Hole: Size 7 7/8 T.D. 5700 ft. P.B. to 5583 ft.

### CAPACITY FACTORS:

Casing: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Drill Pipe: Bbls/Lin. ft. 0.142 Lin. ft./Bbl. \_\_\_\_\_

Annulus: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

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 NEAL RUPP

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
6:30 <sup>A</sup>						JOB AND SETTING PROCEDURES
				3		1st Plug 5883' 50SK
	700			19	6	H <sub>2</sub> O
				1		CEMENT
	800			75	6	H <sub>2</sub> O
6:45	0		93			MUD
7:00				5351 FT		Plug Down
7:30						100' Above CEMENT Top CIRCULATE H <sub>2</sub> O
1:40	100					CONTINUE TO CARRY DOWN DRILL PIPE
	100			3		2nd Plug 750 FT - 50SK
1:45	0			19	5	H <sub>2</sub> O
	100			1		CEMENT
				6	5	H <sub>2</sub> O
1:45	0		24			MUD
2:00						Plug Down
	100			14	3	3rd Plug 375' 50SK
	100			1.5	3	CEMENT
2:05			15.5			MUD
3:30				2.75		Plug Down
				1.25		90' 10SK
3:45			9.75	2.75		BATHOLE 15 SK
						MOUSE HOLE 10SK

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

No. SR 0502 (Rev. 3/90)  
 Must accompany job ticket.

THANK YOU  
NR