

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

API NO. 15-199-20108-00-00

County Wallace  
Approx. NW NW NW Sec 6 Twp 15 Rge 42 East  
West

Operator: License # 5171  
Name TXO Production Corp.  
Address 155 N. Market, Suite 1000  
Wichita, KS 67202  
City/State/Zip

4855 Ft North from Southeast Corner of Section  
4950 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

Purchaser Permian

Lease Name Hibbert "B" Well # 1

Operator Contact Person Cory West  
Phone 316-269-7600

Field Name Ladder Creek III Anadarko-KAN

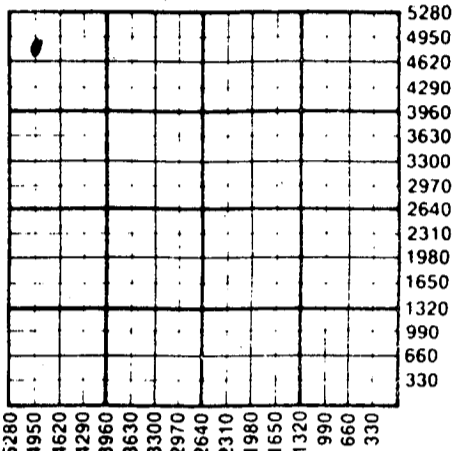
Producing Formation Pennsylvanian

Contractor: License # 6033  
Name Murfin Drilling Company

Elevation: Ground 3911' KB 3916'

Wellsite Geologist Bill Miller  
Phone 316-269-7600

Section Plat



Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  Temp Abd  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply etc.)

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SEP 16 1987  
Texas Oil & Gas Corp.  
Wichita

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

WATER SUPPLY INFORMATION

Disposition of Produced Water:  Disposal  
Docket #  Repressuring

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
8-14-87 8-29-87 9-5-87  
Spud Date Date Reached TD Completion Date  
5300' 5287'  
Total Depth PBTD  
8-5/8" @ 764'  
Amount of Surface Pipe Set and Cemented at...feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set...feet  
If alternate 2 completion, cement circulated from...feet depth to...w/...SX cmt  
Cement Company Name  
Invoice #

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717  
Source of Water: Hauled.  
Division of Water Resources Permit #  
Groundwater...Ft North from Southeast Corner (Well) ...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 Doug Clark  
Title District Geologist Date 10/13/87

Subscribed and sworn to before me this 13th day of October 1987.  
Notary Public Nancy K. Lay  
Date Commission Expires January 30, 1988

K.C.C. OFFICE USE ONLY  
 Letter of Confidentiality Attached  
 Wireline Log Received  
 Drillers Timelog Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other (Specify)

NANCY K. LAY  
NOTARY PUBLIC  
STATE OF KANSAS  
My Appt. Exp. 1/30/88

Sec. 6 Twp. 15 Rge. 42



TXO Production Corp.  
155 N. MARKET, SUITE 1000  
WICHITA, KANSAS 67202

15-199-20108-00-00

December 2, 1987

State Corporation Commission  
200 Colorado Derby Building  
202 West 1st Street  
Wichita, Kansas 67202-1286

Attn: Kathleen Carlisle

RE: Alternate 2 completion information for the Purvis Farms #1 & #2 and  
Hibbert "A" #3 and "B" #1

Gentlemen:

Following is the Alternate 2 completion information required on ACO-1's as you  
requested concerning the referenced wells:

Purvis Farms #1 - Yes (Multiple Stage Collar Used) depth - 1928'  
cement circulated from 1928' to surface csg w/ 350 sxs  
Cement company BJ Titan Invoice No. XM079

Purvis Farms #2 - Yes (Multiple Stage Collar Used) depth - 2004'  
cement circulated from 2004' to surface csg w/ 300 sxs  
Cement company BJ Titan Invoice No. XE046

Hibbert "A" #3 - Yes (Multiple Stage Collar Used) depth 1940'  
cement circulated from 1940' to surface csg w/ 400 sxs  
Cement company BJ Titan Invoice No. XT019

X Hibbert "B" #1 - Yes (Multiple Stage Collar Used) depth - 1944'  
cement circulated from 1944' to surface csg w/ 400 sxs  
Cement company BJ Titan Invoice No. XM078

Should you need additional information, please let me know.

Sincerely,

TXO PRODUCTION CORP.

*Nancy K. Lay*  
Nancy K. Lay  
Geology Secretary

/nkl

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STATE CORPORATION COMMISSION  
DEC 3 1987  
CONSERVATION DIVISION  
Wichita, Kansas

SIDE TWO

15-199-20108-00-00

Operator Name TXO Production Corp. Lease Name Hibbert "B" Well # 1

Sec 6 Twp 15S Rge 42 East West Wallace County

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 [X] No
Samples Sent to Geological Survey [X] Yes [ ] No
Cores Taken [X] Yes [ ] No

Formation Description [X] Log [ ] Sample

No DST's Taken.

Table with 3 columns: Name, Top, Bottom. Rows include Morrow Sh, Stockholm SS, Morrow LS, Mississippi.

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DEC 12 1988

FROM CONFIDENTIAL

Form sections: CASING RECORD, PERFORATION RECORD, TUBING RECORD, Date of First Production, Producing Method, Estimated Production Per 24 Hours.

METHOD OF COMPLETION

Production Interval

Disposition of gas: [ ] Vented [ ] Open Hole [X] Perforation [ ] Solid [ ] Other (Specify) 5151-59' [ ] Used on Lease [ ] Dually Completed [ ] Commingled

DATE OF JOB  
MM DD YY  
8 15 87

CONTRACT NO. 281774

DIRECT CORRESPONDENCE TO: P.O. BOX 4442 HOUSTON, TX 77210	TERMS: NET 30 DAYS FROM DATE OF CONTRACT	REMIT TO: P.O. BOX 200416 HOUSTON, TX 77216
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ORDER NO.

**CUSTOMER**

NAME: TXO NO. \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

AUTHORIZED BY: *Carroll Veech*

**DESCRIPTION OF WELL**

WELL NO. B-41	OIL	NEW	STATE	CODES
	GAS	OLD	KS	
LEASE NAME: <i>Wibbert</i>	COUNTY/PARISH: <i>Wallace</i>			
FIELD NAME: _____	CITY: _____			
OWNER: <i>Myrdin</i>	MTA DISTRICT: _____			
LEASE LINES: _____				
SURVEY LINES: <i>Kory - Ken &amp; Lee</i>				
SURVEY: _____				
DIRECTIONS TO LOCATION: <i>State Line h.w. 55-1E</i>				
SECTION, TOWNSHIP, RANGE: <i>E-15 -42 W</i>				
QUADRANT: _____				

**JOB INFORMATION**

ARRIVED		RELEASED									
HH	MM	AA	MM	DD	YY	HH	MM	AA	MM	DD	YY
5	45	P	8	15	87	9	45	P	8	15	87
JOB CODE	TYPE OF JOB: <i>Surface</i>		API OR IC NO. _____								
AVG. PSI	BUSINESS CODE	INJ. RATE (BPM)	WORKING WELL DEPTH: <i>767</i> FT.								

DIST. NO. 3320	DISTRICT NAME: <i>Oakley KS</i>	SLSMAN NO. _____
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CONTRACT CONDITIONS

This contract must be signed before the job is started or merchandise delivered. The undersigned is authorized to execute this contract as an Agent of the Customer. As such, the undersigned 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 substitute terms and/or conditions shall become a part of this contract without the written consent of an Officer of BJ-TITAN SERVICES COMPANY.

SIGNED: *[Signature]*  
(WELL OWNER: OPERATOR, CONTRACTOR OR AGENT)

PRICE BOOK REF. NO.	SERVICES/MATERIAL	U/M	QUANTITY	PRICE	EXTENSION
01 10.4.0.0.3.0.5	Price to 300ft	ea	1	375.00	375.00
02 10.4.0.0.3.1.0	Below 300ft to 767 ft	ea	467	42	196.14
03 10.1.0.9.0.0.5	PTM (72) Oakley	ea	144	1.10	158.40
04 10.4.3.0.5.3.6	8 7/8 Plug	ea	1	62.00	62.00
05 10.4.1.0.5.0.4	Coupling	sk	150	6.00	900.00
06 10.4.1.5.0.0.5	WT Lite	sk	250	5.56	1390.00
07 10.4.2.0.1.4.5	Gal	wt	2.82	6.75	19.04
08 10.4.1.5.0.4.8	CuCL	sk	13.54	25.75	348.66
09 10.8.8.0.0.8.5	Handling & Drilling	sk	400	95	380.00
10 10.9.4.0.1.0.1	Per Ton Mile 18.7 Tons	T/M	1346.4	70	942.48
11 10.4.3.3.0.6.6	8 7/8 Basket	ea	1	171.00	171.00
12 10.4.3.3.0.5.3	8 7/8 Centralizers	ea	2	58.50	117.00
13 10.4.3.3.0.8.3	8 7/8 Baffle Plate	ea	1	56.70	56.70
14					5116.42
15	20% Discount				1023.28
16					4093.14

SERVICE REPRESENTATIVE: *[Signature]* PR. BOOK: 7

The above material and service ordered by the Customer and received by: *[Signature]*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

CHECK IF CONTINUATION USED

THIS IS NOT AN INVOICE. THIS CONTRACT IS SUBJECT TO REVIEW AND CORRECTION BY OUR ACCOUNTING DEPT.

DEC 12 1988

FROM CONFIDENTIAL

CONTRACT NO. 281734

DATE OF JOB: MM 08, DD 15, YY 87  
 DISTRICT: Oakley  
 DIST. NO.: 8320  
 AUTHORIZED BY: Gerald Veech  
 CUSTOMER: TXO

PRICE BOOK	PRICE BOOK REF. NO.	SERVICES / MATERIAL	U/M	QUANTITY	PRICE	PRICE EXTENSION
	104.10.5.04	Common	SK	75	6 00	450 00
	104.15.0.18	Pos-mix	SK	50	3 60	180 00
	104.15.0.48	Ca CL	SK	4.03	25 75	103 77
	104.20.14.9	Gravel	CUY	2.15	6 75	14 51
	104.8.0.0.85	Handling & Dumping	SK	125	75	118 75
	104.9.0.1.01	Per Ton Mile 5.7 Ton	TM	400.4	70	280 28
						1155 31
		70% Discount				231 06
						924 25
		70% Discount				4073 14
						5017 39

SERVICE REPRESENTATIVE: [Signature]  
 PR. BOOK: 7  
 THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]  
 (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

CHECK IF ADDITIONAL CONTINUATION IS USED

This is not an invoice. This contract is subject to review and correction by our Accounting Department.

SB-3015 (Rev. 4/85)

RELEASED  
 DEC 12 1988  
 FROM CONFIDENTIAL

# BJ-TITAN SERVICES

P.O. BOX 4442 HOUSTON, TX 77210

# CEMENTING LOG

STAGE NO.

Date 8-15-87 District Oakley Ticket No. 281774  
 Company TXO Rig Mar Jm 20  
 Lease Hibbert Well No. B-1  
 County Wallace State \_\_\_\_\_  
 Location \_\_\_\_\_ Field \_\_\_\_\_

CEMENT DATA:

Spacer Type: \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
 LEAD: Pump Time \_\_\_\_\_ hrs. Type BJ Lite  
32 CC Excess \_\_\_\_\_  
 Amt. 250 Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
 TAIL: Pump Time \_\_\_\_\_ hrs. Type Common  
32 CC 226 gal Excess \_\_\_\_\_  
 Amt. 150 Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
 WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls.

CASING DATA: PTA  Squeeze   
 Surface B Intermediate  Production  Liner   
 Size 8 7/8 Type \_\_\_\_\_ Weight 24 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. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

Pump Trucks Used 1452  
 Bulk Equip. T-38 + J-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 [Signature]

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
<u>5:45 am</u>						<u>On Location &amp; Setup</u>
<u>9:45 am</u>						<u>Mix Lead followed by Tail Cement Displace plug to Baffle Plate Plug Down Cement did not circulate</u>
<u>9:50 am</u>						<u>Wait on Cement</u>
<u>2 pm</u>						<u>Mix 100sks 60/40 Poz 32 CC 226 Gal + Pump Down 1" Ths Put 25sks 60/40 Poz 32 CC 226 Gal on ground for fill in later</u>
<u>2:30 pm</u>						<u>Job finished</u>

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

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

RELEASED  
 DEC 12 1988  
 FROM CONFIDENTIAL

DATE OF JOB  
MM DD YY  
8 30 87

CONTRACT NO. 281741

DIRECT CORRESPONDENCE TO: P.O. BOX 4442 HOUSTON, TX 77210  
 TERMS: NET 30 DAYS FROM DATE OF CONTRACT  
 REMIT TO: P.O. BOX 200416 HOUSTON, TX 77216

ORDER NO.

CUSTOMER  
 NAME: TXO  
 ADDRESS:  
 CITY: STATE: ZIP CODE:  
 AUTHORIZED BY: *Harold Vatch*

DESCRIPTION OF WELL  
 WELL NO: B-1  
 OIL/GAS: NEW/OLD  
 STATE: Ks  
 LEASE NAME: *Hilbert*  
 COUNTY/PARISH: *Wallace*  
 FIELD NAME: *Muslin Dale #20*  
 CITY:  
 OWNER: TXO  
 MTA DISTRICT:  
 LEASE LINES:  
*Lease sup Harry J.*  
 SURVEY LINES:  
*Help Barry & Lee*  
 SURVEY:  
*Pump truck CT-37*  
 DIRECTIONS TO LOCATION:  
*Western 4w-65-1w*  
 SECTION, TOWNSHIP, RANGE:  
*6-15-42*  
 QUADRANT:  
*Delmonad from Oakley, Ks*

JOB INFORMATION: ROUND TRIP MILES  
 ARRIVED: 2:30 P 8 30 87  
 RELEASED: 10:00 P 8 30 87  
 JOB CODE: 8  
 TYPE OF JOB: *Normal Drilling*  
 API OR IC NO.:  
 AVG. PSI: BUSINESS CODE: INJ. RATE (BPM): WORKING WELL DEPTH: 5299 FT.

DIST. NO: 3320  
 DISTRICT NAME: *Oakley, Ks*  
 SLSMAN NO.:

CONTRACT CONDITIONS

This contract must be signed before the job is started or merchandise delivered.  
 The undersigned is authorized to execute this contract as an Agent of the Customer. As such, the undersigned 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 substitute terms and/or conditions shall become a part of this contract without the written consent of an Officer of BJ-TITAN SERVICES COMPANY.  
 SIGNED: *Harold Vatch*  
 (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

PRICE BOOK REF. NO.	SERVICES/MATERIAL	U/M	QUANTITY	PRICE	EXTENSION
01 1.0100330	Pumping charge			1075.00	1075.00
02 1.0100335	Plus per 100' below 5000'	Per 100'	299	12.00	35.88
03 1.0109005	Pump truck mileage <i>Oakley (72)</i>	RT	144	1.10	158.40
04 1.0410504	Common	ea	150	6.00	900.00
05 1.0424005	CD-31	lb.	106	3.87	410.22
06 1.0422005	Cellulose	lb.	38	1.27	48.26
07 1.0424520	FP-6 Deformers	lb.	21	2.20	46.20
08 1.0428048	KCL	cut	280	20.00	56.00
09 1.0940101	Hauling 7.3 x 72	Piston mics	526	70	368.20
10 1.0850085	Handling + dumping	ea	150	95	142.50
11 1.0430508	Plug	ea	1	40.00	40.00
12 1.0433013	insert	ea	1	144.90	144.90
13 1.0433044	bucket	ea	1	108.00	108.00
14 1.0433050	Centralizers	ea	6	42.30	253.80
15 1.0433094	Part collar	ea	1	1100.00	1100.00
16	<i>Sub - Total</i>				4887.36

SERVICE REPRESENTATIVE: *Harry J.*  
 PR. BOOK: 07  
 The above material and service ordered by the Customer and received by: *Harold Vatch*  
 (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

CHECK IF CONTINUATION USED:  THIS IS NOT AN INVOICE. THIS CONTRACT IS SUBJECT TO REVIEW AND CORRECTION BY OUR ACCOUNTING DEPT. SB3014 (Rev. 4/85)

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CONTRACT NO. 281741

DATE OF JOB: 8/30/87 DISTRICT: Oakley, Ks DIST. NO.: 3320 AUTHORIZED BY: Harold Yeatoh  
 CUSTOMER: TXO

PRICE BOOK REF. NO.	SERVICES/MATERIAL	U/M	QUANTITY	PRICE	PRICE EXTENSION
	-20% discount				977 47
	Total				3909 89

SERVICE REPRESENTATIVE: [Signature] PR. BOOK: 07  
 THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature] (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

CHECK IF ADDITIONAL CONTINUATION IS USED      This is not an invoice. This contract is subject to review and correction by our Accounting Department.      SB-3015 (Rev. 4/85)

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 DEC 12 1988  
 FROM CONFIDENTIAL



**BJ-TITAN SERVICES**

P.O. BOX 4442 HOUSTON, TX 77210

**CEMENTING LOG**

STAGE NO.

Date 8-30-87 District 3320 Ticket No. 281741  
 Company TXO Rig Muslin #20  
 Lease Hilbert Well No. B-1  
 County Wallace State Ks  
 Location Wagon 4W-6N-1W Field \_\_\_\_\_

CASING DATA: PTA  Squeeze   
 Surface  Intermediate  Production  Liner   
 Size 4 1/2 Type J 55 Weight 10.5 Collar 5-8 x 10

Casing Depths: Top surface Bottom 5299'

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

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. .0159 Lin. ft./Bbl. 62.6  
 Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

CEMENT DATA:

Spacer Type: \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
 LEAD: Pump Time \_\_\_\_\_ hrs. Type Cervinson, FP-6  
3/4 of 12 CD-31, 4" Colloidal process  
 Amt. 150 Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density 16.5 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 CT-37  
 Bulk Equip. B-14

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type Cement nose furnished by Co. Man Depth 5299'  
 Float: Type flex fill Depth 5287'  
 Centralizers: Quantity 6 Plugs Top rubber Btm. \_\_\_\_\_  
 Stage Collars Port collar set @ 1986'  
 Special Equip. 1 bucket  
 Disp. Fluid Type H<sub>2</sub>O Amt. 86 Bbls. Weight 8.34 PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

COMPANY REPRESENTATIVE Herald Vatch

CEMENTER Hannett

TIME (AM/PM)	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls/Min	
2:30						on loc with float equip
3:15						pump tel on loc
4:15						run way float equip
6:00						finish running float equip + break circulation
8:20						break up to circulate
8:50						mix cement + pump 40 bbl RLL 28 float
9:10						unload and pump + lines
9:15						displace cement <del>with water</del>
9:30						plug down @ 1500 PST
						Thank you Durrey crew

FINAL DISP. PRESS: 700 PSI BUMP PLUG TO 1500 PSI BLEEDBACK 1/4 BBLs. THANK YOU

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

RELEASED  
 DEC 12 1988  
 FROM CONFIDENTIAL

15-199-20108-00-00

CORE ANALYSIS REPORT  
FOR  
TXO PRODUCTION CORPORATION  
HIBBERT NO. B-1 WELL  
WALLACE COUNTY, KANSAS

NOV 12 1987

KANSAS GEOLOGICAL SURVEY  
WICHITA BRANCH

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom; and for whose exclusive and confidential use; this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or formation in connection with which such report is used or relied upon.

SECRET

NOV 10 1987

NOV 10 1987

RELEASED

DEC 12 1988

FROM CONFIDENTIAL

CORE LABORATORIES, INC.  
Petroleum Reservoir Engineering  
OKLAHOMA CITY, OKLAHOMA

15-199-20108-00-00

REPLY TO  
SUITE 133  
400 SOUTH VERMONT  
OKLAHOMA CITY, OK  
73108

September 15, 1987

TXO Production Corporation  
155 North Market, Suite 1000  
Wichita, Kansas 67202

Attn: Mr. John Golson

Subject: Core Analysis Data  
Hibbert No. B-1 Well  
Wallace County, Kansas  
CLI File 57182-12931

Gentlemen:

Cores taken in the subject well in the Morrow Sand formation were received at the Oklahoma City laboratory for special analytical testing described on the Procedure Page.

The accompanying Coregraph presents the Surface Core-Gamma Log and binomially averaged core analysis data in graphical form to aid correlation with downhole electrical surveys.

Tabular presentation of the measured physical properties may be found on pages one and two of this report.

Histograms of porosity and permeability in addition to a graph of permeability versus porosity may be found on pages three through five.

It is a pleasure to have this opportunity of serving you.

Very truly yours,

CORE LABORATORIES, INC.

*Charles A. Devier*

Charles A. Devier  
Laboratory Manager

CAD:ja

3 cc - Addressee  
2 cc - Texas Oil & Gas  
Engineering Well Files  
Dallas, Texas

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DEC 12 1988

FROM CONFIDENTIAL

TXO Production Corporation  
Hibbert No. B-1 Well  
CLI File 3402-12931

Procedure Page

Handling and Analytical Procedures

Diamond coring equipment and water base mud was used to obtain 4.0 inch diameter cores between 5,147.0 and 5,178.0 feet.

The cores were transported to Oklahoma City by DOWDCO representative.

A Core-Gamma Log was recorded for downhole electric log correlation.

Plug analysis was made in intervals requested.

Fluid removal was accomplished using Dean Stark extraction.

Porosity was determined by Boyle's law grain volume--mercury pump bulk volume.

Horizontal air permeability on plugs measured without Klinkenberg correction.

Cores were slabbed for future study.

Cores and slabs will be shipped to TXO Production Corporation, Wichita, Kansas.

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DEC 12 1988

FROM CONFIDENTIAL

CORE LABORATORIES, INC.

Company : TXO PRODUCTION CORPORATION  
 Well : HIBBERT NO. B-1 WELL  
 Location :  
 Co, State : WALLACE COUNTY, KANSAS

Field :  
 Formation : MORROW  
 Coring Fluid : WATER BASE MUD  
 Elevation :

File : 57182-12931  
 Date : 2-SEP-1987  
 API No. :  
 Analysts: DEVIER

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) Kair md	POROSITY (HELIUM) %	SATURATION (PORE VOLUME)		GRAIN DENSITY gm/cc	DESCRIPTION
				OIL %	WATER %		
1	5147.0- 48.0	0.11	8.0	28.2	54.7	2.74	Sd gry f gr v sh mic
2	5148.0- 49.0	0.16	9.4	2.2	78.1	2.69	Sd gry f gr v sh mic
3	5149.0- 50.0	3.50	8.9	10.7	73.3	2.68	Sd gry f gr v sh mic frac
4	5150.0- 51.0	5.80	6.7	7.8	82.6	2.69	Sd dk gry f gr v sh mic
5	5151.0- 52.0	0.20	9.3	2.8	78.4	2.67	Sd gry f gr v sh mic
6	5152.0- 53.0	1.60	9.3	1.7	79.0	2.68	Sd gry f gr v sh mic
7	5153.0- 54.0	51.0	11.5	14.2	47.2	2.67	Sd lt gry m-c gr sh sh incl slily mic frac
8	5154.0- 55.0	1077.	17.2	15.6	45.4	2.65	Sd lt gry c gr slily mic
9	5155.0- 56.0	155.	13.1	15.1	38.1	2.67	Sd lt gry c gr slily mic
10	5156.0- 57.0	577.	16.5	11.1	45.9	2.67	Sd lt gry c gr slily mic
11	5157.0- 58.0	1394.	16.1	11.0	52.2	2.67	Sd lt gry c gr
12	5158.0- 59.0	2084.	18.1	9.2	53.1	2.66	Sd lt gry c gr
13	5159.0- 60.0	6363.	16.5	5.3	42.2	2.67	Sd lt gry c gr
14	5160.0- 61.0	3405.	18.8	2.3	53.8	2.68	Sd lt gry c gr
15	5161.0- 62.0	321.	13.5	19.0	34.6	2.65	Sd lt gry m-c gr
16	5162.0- 63.0	57.0	6.3	7.6	35.7	2.66	Sd lt gry f-c gr slily lmy
17	5163.0- 64.0	1935.	15.3	4.2	47.9	2.65	Sd lt gry m-c gr v slily lmy
18	5164.0- 65.0	710.	10.6	12.3	44.3	2.66	Sd lt gry c gr v slily lmy
19	5165.0- 66.0	988.	15.5	13.0	41.4	2.64	Sd lt gry m-c gr v slily lmy
20	5166.0- 67.0	125.	15.2	12.5	47.3	2.65	Sd lt gry m gr v slily lmy
21	5167.0- 68.0	0.17	5.2	1.2	69.4	2.67	Sd lt gry f-c gr v lmy
22	5168.0- 69.0	281.	14.2	13.3	56.4	2.66	Sd lt gry m gr v slily lmy
23	5169.0- 70.0	202.	10.7	18.0	51.3	2.66	Sd lt gry m-c gr v slily lmy
24	5170.0- 71.0	15.0	7.3	5.7	54.4	2.66	Sd lt gry f-c gr lmy
25	5171.0- 72.0	1.30	8.3	0.0	72.0	2.65	Sd lt gry vf-f gr mic frac v slily pyr slily lm
26	5172.0- 73.0	*	6.4	6.6	77.5	2.65	Sd lt gry vf-f gr mic sh frac
27	5173.0- 74.0	0.18	7.0	0.7	65.7	2.66	Sd lt gry vf-f gr mic

15-109-20108-00-00

Data 1-

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CORE LABORATORIES, INC.

Company : TXO PRODUCTION CORPORATION  
 Well : HIBBERT NO. B-1 WELL

Field :  
 Formation : MORROW

File : 57182-12931  
 Date : 2-SEP-1987

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) K <sub>air</sub> md	POROSITY (HELIUM) %	SATURATION (PORE VOLUME)		GRAIN DENSITY gm/cc	DESCRIPTION
				OIL %	WATER %		
28	5174.0- 75.0	1.40	8.7	5.9	65.0	2.66	Sd lt gry vf-f gr mic
29	5175.0- 76.0	0.37	12.3	2.9	75.0	2.67	Sd lt gry vf-f gr mic sh incl sty
30	5176.0- 77.0	0.19	7.8	2.0	68.7	2.66	Sd lt gry vf-f gr mic
31	5177.0- 78.0	0.03	6.0	8.5	65.4	2.65	Sd lt gry vf-f gr mic sh incl

\* DENOTES UNSUITABLE FOR PERMEABILITY MEASUREMENT

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15199-20108-00-00  
 Data 1-

CORE LABORATORIES, INC.

Company : TXO PRODUCTION CORPORATION  
 Well : HIBBERT NO. B-1 WELL

Field :  
 Formation : MORROW

File : 57182-12931  
 Date : 2-SEP-1987

TABLE I

SUMMARY OF CORE DATA

ZONE AND CUTOFF DATA		CHARACTERISTICS REMAINING AFTER CUTOFFS			
ZONE:		ZONE:		PERMEABILITY:	
Identification .....	MORROW	Number of Samples .....	31	Flow Capacity .....	19755.0 md-ft
Top Depth .....	5147.0 ft	Thickness Represented ..	31.0 ft	Arithmetic Average .....	659. md
Bottom Depth .....	5178.0 ft	POROSITY:		Geometric Average .....	21.6 md
Number of Samples .....	31	Storage Capacity .....	349.9 0-ft	Harmonic Average .....	0.396 md
DATA TYPE:		Arithmetic Average .....	11.3 %	Minimum .....	0.030 md
Porosity .....	HELIUM	Minimum .....	5.2 %	Maximum .....	6363. md
Permeability ..	HORIZONTAL	Maximum .....	18.8 %	Median .....	54.0 md
CUTOFFS:		Median .....	10.6 %	Standard Deviation .....	10 <sup>±3.128</sup> md
Porosity (Minimum) .....	0.0 %	Standard Deviation .....	±4.1 %	HETEROGENEITY (Permeability):	
Permeability (Minimum) ...	0.0000 md	GRAIN DENSITY:		Variation .....	0.997
Water Saturation (Maximum)	100.0 %	Arithmetic Average .....	2.67 gm/cc	Lorenz Coefficient .....	0.703
Oil Saturation (Minimum) ..	0.0 %	Minimum .....	2.64 gm/cc	AVERAGE SATURATIONS (Pore Volume):	
Grain Density (Minimum) ..	2.00 gm/cc	Maximum .....	2.74 gm/cc	Oil .....	9.3 %
Grain Density (Maximum) ..	3.00 gm/cc	Median .....	2.66 gm/cc	Water .....	55.1 %
Lithology Excluded .....	NONE	Standard Deviation .....	±0.02 gm/cc		

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