

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

097-20,434-A 0001

API NO. 15-.....  
County..... Kiowa  
..... SW SW Sec. 32 Twp 29S Rge. 17 East  
..... X West

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

840 Ft North from Southeast Corner of Section  
4580 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

Purchaser N/A

Lease Name Schwarm "A" Well # 1

Operator Contact Person Doug Clark  
Phone 316 269-7600

Field Name Barstow

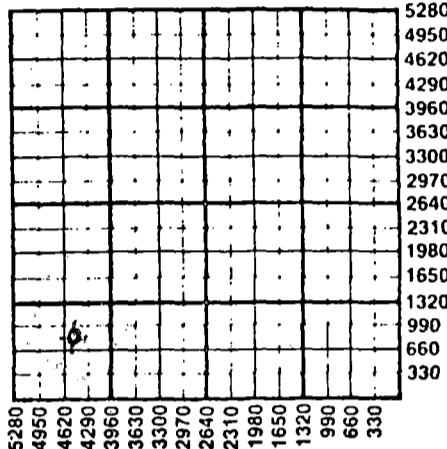
Producing Formation D&A

Contractor: License # 5107  
Name H-30 Drilling Inc.

Elevation: Ground 2024' KB 2032'

Wellsite Geologist None  
Phone

Section Plat



Designate Type of Completion  
New Well Re-Entry Workover

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

If OMWO: old well info as follows:  
Operator TXO Production Corp.  
Well Name Schwarm #2  
Comp. Date 12-11-77 Old Total Depth 4881'

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal  
Docket # Repressuring

WELL HISTORY

Drilling Method:  
X Mud Rotary Air Rotary Cable  
2-23-87 2-25-87 9-22-87  
Spud Date Date Reached TD Completion Date  
3693' 2953'  
Total Depth PBTD

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water:  
Division of Water Resources Permit # N/A

Groundwater.....Ft North from Southeast Corner  
(Well) .....Ft West from Southeast Corner of  
Sec Twp Rge East West

X Surface Water 840 Ft North from Southeast Corner  
(Stream, pond etc) 4580 Ft West from Southeast Corner  
Sec 32 Twp 29S Rge 17 East XX West

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

Amount of Surface Pipe Set and Cemented at.....feet  
Multiple Stage Cementing Collar Used? Yes X No  
If yes, show depth set.....feet  
If alternate 2 completion, cement circulated N/A  
from.....feet depth to.....w/.....SX cmt  
Cement Company Name  
Invoice #

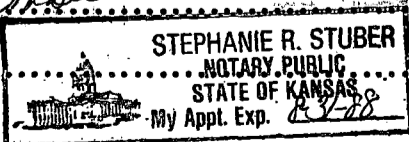
INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential 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 5/15/87

Subscribed and sworn to before me this 15th day of May 1987.  
Notary Public Stephanie R. Stuber

Date Commission Expires 8/31/88



K.C.C. OFFICE USE ONLY  
F Letter of Confidentiality Attached  
C Wireline Log Received  
C Drillers Timelog Received  
Distribution  
KCC SWD/Rap NGPA  
KGS Plug Other (Specify)  
RECEIVED  
STATE CORPORATION COMMISSION  
OCT 15 1987  
Form ACO-1 (5-86)

Operator Name TXO Production Corp. Lease Name Schwarm "A" Well # 1

Sec. 32 Twp. 29S. Rge. 17  East  West County Kiowa

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

Name Top Bottom

SEE LOG TOPS FROM OLD WELL  
 TXO - Schwarm #2

CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> 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"	24#	460'	Already Set		
Production	7-7/8"	4-1/2"	10.5#	3636'	Surefill	100	

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 JSPF	3409-13' (Emporia)	500 gallons 15% HCl w/ NE, FE agent & clay stabilizer	3409-13'
4 JSPF	2984-86'	pumped 100 sxs Class "A" w/ 0.75% D-31	2984-86'
4 JSPF	2878-82' (Cottonwood)	500 gallons 15% HCl w/ NE, FE agent & clay sta.	

TUBING RECORD	Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
N/A					

Date of First Production	Producing Method
Prep to P & A	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	N/A Bbls	N/A MCF	N/A Bbls	CFPB	

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Open Hole  Perforation  
 Sold  Other (Specify) ..... D&A 9-22-87  
 Used on Lease  Dually Completed .....  
 Commingled .....



Operator Name ..... TXO Production Corp. ..... Lease Name..... Schwarm "A" ..... Well #..... 1

Sec..... 32 ..... Twp..... 29S ..... Rge..... 17 .....  East  West ..... County..... Kiowa .....

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

Name: Top Bottom

SEE LOG TOPS FROM OLD WELL  
 TXO - Schwarm #2

CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> 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"	24#	460'	Already Set		
Production	7-7/8"	4-1/2"	10.5#	3636'	Surefill	100	
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 JSPF	3409-13' (Emporia)			500 gallons 15% HCl w/NE		3409-13'	
4 JSPF	2984-86'			FE agent & clay stabilizer pumped 100 sxs Class "A" w/ 0.75% D-31		2984-86'	
TUBING RECORD		Size	Set At	Packer at	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No		
N/A							
Date of First Production		Producing Method					
Prep to P & A		<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....					
Estimated Production Per 24 Hours		Oil	Gas	Water	Gas-Oil Ratio	Gravity	
N/A		Bbls	MCF	Bbls	CFPB		

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Open Hole  Perforation  
 Sold  Other (Specify) ..... Prep to P & A  
 Used on Lease

Dually Completed  RECEIVED  
 Commingled STATE CORPORATION COMMISSION

MAY 21 1987

CONSERVATION DIVISION  
 Wichita, Kansas

ORIGINAL

## BJ-TITAN SERVICES COMPANY

INVOICE DATE  
02/24/87

DIRECT BILLING INQUIRIES TO: 713-895-5821	TERMS NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO: BJ-TITAN SERVICES P.O. BOX 200416 HOUSTON, TX 77216
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TXU PRODUCTION CORPORATION

RURAL RT 1 BOX 125.

MEDICINE LODGE

KS 67104

PAGE 1	INVOICE NO. QE149
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AUTHORIZED BY 284812
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PURCH. ORDER REF. NO.
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WELL NUMBER : A-1

CUSTOMER NUMBER : 00903270

LEASE NAME AND NUMBER SCHWARM UWWD	STATE 15	COUNTY/PARISH	CITY	DISTRICT NAME MEDICINE LODGE	DISTR. NO. 3350
JOB LOCATION/FIELD	MTA DISTRICT	DATE OF JOB 02/24/87	TYPE OF SERVICE LAND-LONG STRING/PRUDUC		

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10100320	1.00	CEMENTING CASING 3000 TO 5000 FT.	862.00		862.00
10100325	6.36	PLUS PER 100 FT. BELOW 3000 FT.	9.00		57.24
10109005	40.00	MILEAGE CHRQ, FROM NEAREST BASE OF	1.50		60.00
10410504	100.00	CLASS "A" CEMENT	5.00	CF	500.00
10428020	9.40	A-10 GYPSEAL	13.50	CW	126.90
10428048	400.00	KCL	0.20	CW	80.00
10415049	0.94	A-7-P	23.00	LB	21.62
10420145	0.94	BJ-TITAN GEL, BENTONITE, BULK SALES	6.75	CW	6.35
10430508	1.00	4-1/2" TOP RUBBER PLUG	23.50	EA	23.50
10433013	1.00	INSERT FLEXFILL VALVE MODEL C 4-1/2	144.90		144.90
10433044	2.00	METAL PETAL BASKET LESS 5TOP RINGS	108.00		216.00
10433050	4.00	MODEL M CASING CENTRALIZERS 4-1/2"	42.30		169.20
10433166	10.00	4-1/2" GEMUCO ROTATING SCRATCHER	53.70		537.00
10433036	1.00	CEMENT GUIDE SHOE 4-1/2"	93.60		93.60
10880095	100.00	HANDLING AND DUMPING CHRQ FOR CUSTO	0.92		92.00
10940115	330.00	MIN DRAYAGE CHRQ	0.68		224.40

ACCOUNT

RECEIVED  
STATE CORPORATION COMMISSION

OCT 15 1987

CONSERVATION DIVISION  
Wichita, Kansas

TAX EXEMPTION STATUS:

ORIGINAL

BJ-TITAN SERVICES COMPANY

INVOICE DATE  
02/24/87

DIRECT BILLING INQUIRIES TO: 713-895-5821	TERMS NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO: BJ-TITAN SERVICES P.O. BOX 200416 HOUSTON, TX 77216
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PAGE 2	INVOICE NO. QE149
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TXO PRODUCTION CORPORATION  
RURAL RT 1 BOX 125B  
MEDICINE LODGE KS 67104

AUTHORIZED BY  
287982

PURCH. ORDER REF. NO.

WELL NUMBER : A-1                      CUSTOMER NUMBER : 00903270

LEASE NAME AND NUMBER SCHWARM UWWD	STATE 15	COUNTY/PARISH	CITY	DISTRICT NAME MEDICINE LODGE	DISTR. NO. 3350
JOB LOCATION/FIELD	MTA DISTRICT	DATE OF JOB 02/24/87	TYPE OF SERVICE LAND-LONG STRING/PRODUC		

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE				
		KANSAS <i>oil</i>							
		<table border="1"> <tr> <td>CHARGE TO: <i>Schwarm A #1</i></td> <td>AFE - PROP <i>862740</i></td> </tr> <tr> <td colspan="2">USED FOR: <i>33 cementing</i></td> </tr> </table>	CHARGE TO: <i>Schwarm A #1</i>	AFE - PROP <i>862740</i>	USED FOR: <i>33 cementing</i>				
CHARGE TO: <i>Schwarm A #1</i>	AFE - PROP <i>862740</i>								
USED FOR: <i>33 cementing</i>									
		DRIG <input checked="" type="radio"/> COMP    L & W    W/O OPER         OTHER							
			SUBTOTAL		3,214.71				
			DISCOUNT		745.09				
ACCOUNT		4.00000% STATE TAX 1.00000% COUNTY TAX	RECEIVED 2469.62 STATE CORPORATION COMMISSION OCT 15 1987 CONSERVATION DIVISION Wichita, Kansas		98.79 24.69				

RECEIVED  
MAR - 9 1987  
M.L. OFFICE

TAX EXEMPTION STATUS:                      PAY THIS AMOUNT                      2,593.10

*Handwritten initials/signature*

BJ-TITAN SERVICES COMPANY

CUSTOMER COPY

DATE OF JOB  
MM DD YY  
2 24 87

CONTRACT NO. **284812**

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: 780 PRODUCTION CORP  
NO. [ ]  
ADDRESS: 155 N. MARIST, ST. 1000  
CITY: WICHITA STATE: KS ZIP CODE: 67207  
AUTHORIZED BY: TX CONVENTS

**DESCRIPTION OF WELL**

WELL NO. 11-1  
OIL GAS  NEW OLD  
STATE: KANSAS CODES: 15  
LEASE NAME: SCHWARM OILCO  
COUNTY/PARISH: IOWA  
FIELD NAME: [ ] CITY: [ ]  
OWNER: TX PROD. CORP. MTA DISTRICT: [ ]  
LEASE LINES: [ ]  
SURVEY LINES: [ ]  
SURVEY: [ ]  
DIRECTIONS TO LOCATION: 5th Hwy + PENNMAN AVE. 7 1/2 S, 2 1/2 W  
SECTION, TOWNSHIP, RANGE: 27 29 17W  
QUADRANT: SW SW

**JOB INFORMATION**

ARRIVED						RELEASED					
HH	MM	A	MM	DD	YY	HH	MM	A	MM	DD	YY
7	00	P	2	24	87	3	00	P	2	25	87

JOB CODE: 0106 TYPE OF JOB: PROD. CASE 6 API OR IC NO. 15-077-10434  
AVG. PSI: 600 BUSINESS CODE: [ ] INJ. RATE (BPM): [ ] WORKING WELL DEPTH: 3691 FT.

DIST. NO. 3330 DISTRICT NAME: Medicine Lodge, 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: *[Signature]*  
(WELL OWNER: OPERATOR, CONTRACTOR OR AGENT)

PRICE BOOK REF. NO.	SERVICES/MATERIAL	U/M	QUANTITY	PRICE	EXTENSION
01 1.0.1.0.0.3.2.0	3000' - 5000'	E	1	862.00	862.00
02 1.0.1.0.0.3.3.5	3000' - 3636' PER 100'	E	6.36	900	5724
03 1.0.1.0.9.0.0.5	TRUCK TRUCK MAINTENANCE	E	40	150	6000
04 1.0.4.1.0.5.0.4	CLASS A	S	100	500	50000
05 1.0.4.2.8.0.2.0	A-10	S	9.4	1350	12690
06 1.0.4.2.8.0.4.8	A-9	L	400	20	8000
07 1.0.4.1.5.0.4.9	A-7	S	9.4	2300	2162
08 1.0.4.2.0.1.4.5	BJ-TITAN GEL	L	9.4	675	635
09 1.0.4.3.0.5.0.8	4 1/2" TOP RUBBER PILE	E	1	2350	2350
10 1.0.4.3.3.0.1.3	4 1/2" INSERT	E	1	14490	14490
11 1.0.4.3.3.0.4.4	4 1/2" CEMENT PACKETS	E	2	10800	21600
12 1.0.4.3.3.0.5.0	4 1/2" CENTRALIZERS	E	4	4230	16920
13 1.0.4.3.3.0.6.6	4 1/2" ROTATING SPACERS	E	10	5370	53700
14 1.0.4.3.3.0.3.6	4 1/2" BULLSEYE SHOE	E	1	9360	9360
15 1.0.8.8.0.0.9.5	HANDLING + DUMPING	Q	100	92	9200
16 1.0.9.4.0.1.1.5	DRYDRAGE 5.5X60	E	330	68	22440

SERVICE REPRESENTATIVE: Kevin K. Langard PR. BOOK: 07  
The above material and service ordered by the Customer and received by: *[Signature]*  
CONSERVATION DIVISION (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)





# BJ-TITAN SERVICES

P.O. BOX 4442 HOUSTON, TX 77210

# CEMENTING LOG

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

Date 2/24/86 District W. Woods Co. Ticket No. 294 312  
 Company NO. 1 Prod. Corp Rig 11-30 #1  
 Lease SMITH ARTH Well No. A-1  
 County McCook State KANSAS  
 Location 2-28-17w Field \_\_\_\_\_

CASING DATA: PTA  Squeeze   
 Surface  Intermediate  Production  Liner   
 Size 4 1/2" Type \_\_\_\_\_ Weight 10.5 Collar \_\_\_\_\_

Casing Depths: Top 11 Bottom 3636

Drill Pipe: Size 4 1/2" Weight 16.15 Collars \_\_\_\_\_  
 Open Hole: Size 7 7/8" T.D. 4331 ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. .0159 Lin. ft./Bbl. 62.3  
 Open Holes: Bbls/Lin. ft. .0602 Lin. ft./Bbl. 16.6  
 Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbls/Lin. ft. .0406 Lin. ft./Bbl. 24.6  
 Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

COMPANY REPRESENTATIVE R. Kraus

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

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

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

TAIL: Pump Time \_\_\_\_\_ hrs. Type SHUT-FILL  
10/2/2 Excess \_\_\_\_\_

Amt. 100 Skys Yield 1.46 ft<sup>3</sup>/sk Density 15.0 PPG

WATER: Lead \_\_\_\_\_ gals/sk Tail 6.8 gals/sk Total 16 Bbls.

Pump Trucks Used 01-41 TRUCK JONES  
 Bulk Equip. T-42 CERALO DICK

Float Equip: Manufacturer BAKER  
 Shoe: Type \_\_\_\_\_ Depth 3636

Float: Type \_\_\_\_\_ Depth 3602

Centralizers: Quantity 4 Plugs Top X Btm. \_\_\_\_\_

Special Equip. 10 ROTATING DRUMMELS

Disp. Fluid Type 2% KCL Amt. 572 Bbls. Weight 8.42 PPG

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

CEMENTER KEVIN L. KUCALOT

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls/Min	
7:00						ON LOCATION, BIG UP, HOLD SAFELY NEEDING
						RUN 4 1/2" Casing, Pointe casing while circulating hole
2:05	700		20 40	20 26		HOOK UP TO CEMENT PUMP START 2% KCL WATER KILL IN - START CEMENT CEMENT IN - SHUT DOWN FLUSH HUMP + LINES
	200		62 38	26 26		RELEASE ILLG - START 2% KCL WATER KILL IN - TURN SHOE - START ROTATING CEMENT TRANS SHOE STOP ROTATING
2:35	1200		93	5		FLUSH ILLG RELEASE PRESSURE + CHECK FLOAT
2:45	3:00					FLOAT DID NOT HOLD, REPRESSURED + RELEASED, DID NOT HOLD, REPRESSURED + SHUT IN

OCT 15 1987

CONSERVATION DIVISION  
Wichita, Kansas

FINAL DISP. PRESS: 900 PSI BUMP PLUG TO 1200 PSI BLEEDBACK \_\_\_\_\_ BBLs.

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



DATE OF JOB  
MM DD YY  
3 12 87

CONTRACT NO. 284820

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: TFC TRADING CORP.  
ADDRESS:  
CITY: STATE: ZIP CODE:  
AUTHORIZED BY: R. L. ...

DESCRIPTION OF WELL  
WELL NO. A-1  
OIL GAS: X NEW OLD: X  
STATE: KANSAS  
COUNTY/PARISH: KNOX  
LEASE NAME: SHAWAN  
FIELD NAME:  
CITY:  
OWNER: TFC TRADING CORP.  
MTA DISTRICT:  
LEASE LINES:  
SURVEY LINES:  
SURVEY:  
DIRECTIONS TO LOCATION: SHAWAN ELEVATOR 7 1/2 S 2 1/4 W  
SECTION, TOWNSHIP RANGE: 22 29S 17W  
QUADRANT:

JOB INFORMATION  
ARRIVED: 11:30 P 3 12 87  
RELEASED: 7:15 P 3 12 87  
JOB CODE: TYPE OF JOB: API OR IC NO.  
AVG. PSI: 450 BUSINESS CODE: INJ. RATE (BPM): 4 WORKING WELL DEPTH: 3400 FT.

DIST. NO. 2370 DISTRICT NAME: MEDICINE LODGE, 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: *[Signature]*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

PRICE BOOK REF. NO.	SERVICES/MATERIAL	U/M	QUANTITY	PRICE	EXTENSION
01 1.01.02.1.15	1500' - 3000'	E	1	862.00	862.00
02 1.01.09.0.05	PUMP TRUCK MESSAGE	E	40	150	6000
03 1.04.10.5.04	CLASS A	B	100	500	50000
04 1.04.24.0.05	P.D. 31	L	71	400	28400
05 1.04.24.5.20	FP-6	L	14	190	2660
06 1.04.30.5.08	4 1/2" TOP KURBEL HUB	E	1	2350	2350
07 1.03.30.0.95	HANDLING - DUMPING	Q	100	92	9200
08 1.09.40.1.15	DAMAGE 4.7 X 60	E	282	63	19176
09					203986
10					30598
11					173388
12					
13					
14					
15					
16					

SERVICE REPRESENTATIVE: *[Signature]* PR. BOOK: 07  
The above material and service ordered by the Customer and received by: *[Signature]*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

# BJ-TITAN SERVICES

P.O. BOX 4442 HOUSTON, TX 77210

# CEMENTING LOG

STAGE NO.

Date 2/12/87 District NEO Woods Ticket No. 734320  
 Company TXO Prod Corp Rig TWS  
 Lease SPRINGHILL Well No. 11-1  
 County WICUP State KANSAS  
 Location 32-295-17W Field \_\_\_\_\_

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

CASING DATA: PTA  Squeeze   
 Surface  Intermediate  Production  Liner   
 Size 4 1/2" Type \_\_\_\_\_ Weight \_\_\_\_\_ Collar \_\_\_\_\_

LEAD: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_  
 Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

Casing Depths: Top \_\_\_\_\_ Bottom \_\_\_\_\_  
176 21 31400'

TAIL: Pump Time \_\_\_\_\_ hrs. Type 11 3/4 OF No.  
(10) 21 Excess \_\_\_\_\_  
 Amt. 100 Skys Yield 1.17 ft<sup>3</sup>/sk Density 15.2 PPG

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

WATER: Lead \_\_\_\_\_ gals/sk Tail 5.6 gals/sk Total \_\_\_\_\_ Bbls.  
 Pump Trucks Used 11-11 STEVEN LUNDAN  
 Bulk Equip. 7-43 11/2 KE STPS

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. .0159 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. \_\_\_\_\_  
 Perforations: From 2934 ft. to 2936 ft. Amt. 3

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type FRESH H<sub>2</sub>O Amt. 47 Bbls. Weight \_\_\_\_\_ PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

COMPANY REPRESENTATIVE Ray Daniels

CEMENTER Ray Daniels

TIME (AM/PM)	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls/Min	
11:30						on location
12:43						START TO LOW PRESS
12:54	300		14 1/2	14 1/2		MOVE LOADS
12:57			25 1/2	18		MOVE BRACKETS
			40	14 1/2		FRESH IN
			45	5		Run 2 PPs. FRESH WATER
			66	21		SPARE CEMENT CEMENT IN - FRESH Run Pp LINES
						RELEASE PPG
1:45	600		113	47		DESIGNER 1766 TO 2953'

RECEIVED  
 STATE CORPORATION COMMISSION

OCT 15 1987

CONSERVATION DIVISION  
 Wichita, Kansas

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

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

