

ORIGINAL

CONFIDENTIAL

RELEASED

APR 30 1991

SIDE ONE

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

Operator: License # 5171

Name: TXO PRODUCTION CORP.

Address 1660 Lincoln Street

Suite 1800

City/State/Zip Denver, Colorado 80246

Purchaser: Kansas Natural

Operator Contact Person: Cory West

Phone (303) 861-4246

Contractor: Name: DUKE DRILLING CO., INC.

License: 5929

Wellsite Geologist: Tom Williams

Designate Type of Completion

New Well  Re-Entry  Workover  
 Oil  SWD  Temp. Abandoned  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply, etc.)

If OWMO: old well info as follows:

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

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

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

Drilling Method:

Mud Rotary  Air Rotary  Cable

1/26/90

2/7/90

2-21-90

Spud Date

Date Reached TD

Completion Date

API NO. 15- 007-22,279-0000 FROM CONFIDENTIAL

County Barber

S/2 NW NW Sec. 33 Twp. 33S Rge. 13  East West

4290 Ft. North from Southeast Corner of Section

4620 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

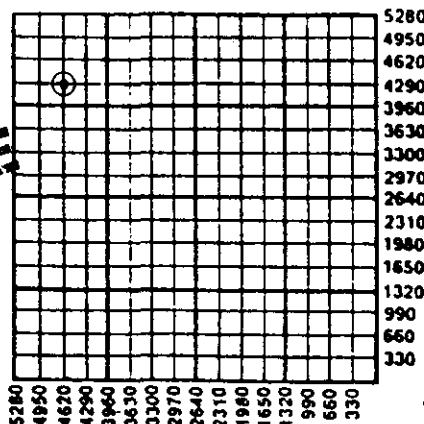
Lease Name Spriggs "D" Well # 1

Field Name Aetna

Producing Formation Mississippian

Elevation: Ground 1717' KB 1725'

Total Depth 5100' PBTD 4897'



Amount of Surface Pipe Set and Cemented at 375 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.

RECEIVED  
APR 16 1990  
TIGHT HOLE  
KANSAS CORPORATION COMMISSION

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 [Signature]

Title Drilling & Production Engineer Date \_\_\_\_\_

Subscribed and sworn to before me this 11 day of April, 19 90.

Notary Public [Signature]

Date Commission Expires 11-03-92

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)

SIDE TWO

Operator Name TXO PRODUCTION CORPORATION Lease Name Spriggs "D" Well # 1  
 Sec. 33 Twp. 33S Rge. 13  East County Barber  
 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.

RELEASED

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.)  
 DST #1 3958-92, 30/60/45/90, ga 42.5 MCFF,  
 rec: 70' 6cm SIP 1338-1510,  
 FP 101-101/101-101  
 DST #2 4737-80, 30/60/60/120,  
 rec: 20' mud, no show.  
 SIP 213-1165, FP 91-91/91-91

APR 30 1991

Formation Description

FROM CONFIDENTIAL  Log  Sample

Name	Top	Bottom
Kanwaka Sh	3758 -	2033
Heebner	3953 -	2228
Snyderville SS	3964 -	2239
LKC	4128 -	2403
Swope	4525 -	2800
Miss	4680 -	2955
Kh Sh	4904 -	3179
Viola	5001 -	3276

**CASING RECORD**  New  Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8-5/8 New	24#	378'	Lite/ Class A	200+75	3% CaCl
Production	7-7/8"	4 1/2" Used	10.5	4943' DV Tool	Surefill @ 4162; 60/40 poz	100 225	6# Gilsonite 6% Gel.

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
1 SPF	4690 - 4700	2000 gals - 15% HCL	
1 SPF	4742 - 4746		
2 SPF	4746 - 4754	Frac'd w/ 20,000# 100 Mesh sd.	
1 SPF	4754 - 4760	158,700# 16-30 sd.	
		40 0 CO2	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-3/8"	4623'	-	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First Production	Producing Method
3-15-90	<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)

Estimated Production Per 24 Hours Approx.	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	Trace	900	15±	-	

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

APR 30 1991

ORIGINAL

DRILLER'S WELL LOG

FROM CONFIDENTIAL

TXO PRODUCTION CORPORATION  
SPRIGGS "D" #1  
Section 33-33S-13W  
Barber County, Kansas.

COMMENCED: January 26, 1990  
COMPLETED: February 7, 1990

0' - 975' Surface  
975' - 1096' Shale  
1096' - 1925' Shale w/Lime Streaks  
1925' - 2530' Shale & Lime  
2530' - 3190' Lime & Shale  
3190' - 3745' Shale & Lime  
3745' - 4350' Shale & Lime  
4350' - 4780' Lime & Shale  
4780' - 5100' Lime & Shale  
5100' RTD

Surface Casing: Set 9 jts.  
8-5/8"x24# at 378' with 200  
sacks Lite and 75 sacks Class"A"  
2% gel, 3% cc.

Production Casing: Set 121 jts.  
4 1/2" at 4937'; 1st Staged with  
100 sacks Surefill; 2nd Staged  
with 225 sacks 60/40 Pozmix.

AFFIDAVIT

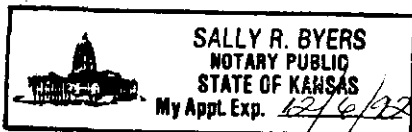
TIGHT HOLE

STATE OF KANSAS )  
) SS:  
COUNTY OF SEDGWICK )

Ralph R. Hamilton, of lawful ages, does swear and state that  
the facts and statements herein are true and correct to the best of his knowledge.

*Ralph R. Hamilton*  
Ralph R. Hamilton

Subscribed and sworn to me this 16th day of February 1990.



*Sally R. Byers*  
Sally R. Byers NOTARY PUBLIC

My Commission Expires: December 6, 1992.

COMMISSION

90



DISTRICT COPY  
**CONFIDENTIAL ORIGINAL**

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

P.O. Box 4442, Houston, Tx. 77210  
REMIT TO: P.O. Box 200416, Houston, Tx. 77216

DATE: 1-27-70		SERVICE CONTRACT NO. 541198	
CUSTOMER ACCOUNT NO.		DIST. NUMBER 3333	
NEW WELL <input type="checkbox"/> OLD WELL <input type="checkbox"/>		WELL TYPE	
WELL NO. 0-1		LEASE Sarge	
ADDRESS		COUNTY/PARISH: Barber CODE STATE: KS CODE: 14	
CITY STATE ZIP		FIELD NAME	
AUTHORIZED BY: Gerard Vatch		ORDER NO.	
WELL OWNER: TXO Prod Co			
STAGE NO.	TYPE JOB: 0100	WORKING DEPTH	FT.
	1 SURFACE <input checked="" type="checkbox"/> 2 INTERMEDIATE <input type="checkbox"/> 3 PRODUCTION <input type="checkbox"/> 4 REMEDIAL <input type="checkbox"/>		
TOTAL PREV. GALS.	SIZE HOLE: 12 1/4	DEPTH: 1091.0	FT.
TOTAL MEAS. DEPTH	SIZE & WT. CASING: 8 5/8 - 24"	DEPTH: 382	FT.
FT.	PIPE OR TUBING: 4 1/2	DEPTH:	FT.
PUMPING EQUIPMENT	TIME (A OR P)	DATE	
TRUCK CALLED	17:30 A	MM	DD YY
ARRIVED AT JOB	11:20 A	11	27 70
START OPERATION	12:20 P	11	27 70
FINISH OPERATION	12:45 P	11	27 70
TIME RELEASED	1:00 P		
MILES FROM STATION TO WELL: 46	SALESMAN NUMBER		
REVENUE EQUIPMENT (UNIT NUMBERS)		EMPLOYEES ON JOB (EMPLOYEE NUMBER)	
MAX. BPM: 6		269832	
S/S EMPLOYEE NUMBER: 46-8472		APR 3 0 1971	
FROM CONFIDENTIAL			

PRICE BOOK REF.	PART NO.	U/M	QTY.	PART NO.	U/M	QTY.	PART NO.	U/M	QTY.
4110504									
11041150105	4110504	Q	114						
	4115018	Q	78						
	4201145	C	10.50						

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 TITAN SERVICES.

PRICE BOOK	0.7	SIGNED: _____		(WELL OWNER, OPERATOR, CONTRACT OR AGENT)			
PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	PRICE EXTENSION		
11011003105	1	301' to 1500'	375.00	E	375	00	
11011003110	82	Below 300'	.42	E	34	44	
11011090005	46	PTM	1.10	S	50	60	
11041305316	1	8 5/8 top ribbon	100.00	E	100	00	
11041105014	75	7 1/2 Class A	5.30	Q	397	50	
11041150005 X	200	8 1/2 L.I.	4.74	Q	948	00	
11041150149	740	A7.P	.32	L	236	80	
11041201145	1.41	CA 601	6.75	C	9	52	
110911011011	292.1	Drillage 12.7 x 2.2	.70	E	204	47	
110818101817	275	Mix w/ ch. 40	.95	Q	261	75	

SERVICE REPRESENTATIVE: Don Saterer THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: \_\_\_\_\_

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 correction by our Accounting Department.

DISTRICT COPY ORIGINAL SERVICE OPERATIONS CONTRACT CONTINUATION



CONTRACT NO. 541198

DATE OF JOB	MM 11	DD 27	YY 91	DISTRICT Med Lodge	DIST. NO. 3350	AUTHORIZED BY Gerrill Venter
CUSTOMER FX Prod Comp						

PRICE BOOK 97

PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	PRICE EXTENSION
10409601	1	8 5/8 Basket A	190.00	E	190 00
10409602	1	8 5/8 Cont G	57.75	E	57 75
10409603	1	9 5/8 Baffle plate B	95.25	E	95 25
					2960 57
		Loss %			2457 29
					769832

SERVICE REPRESENTATIVE New Salazar	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:
---------------------------------------	---

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 correction by our Accounting Department.







CONFIDENTIAL ORIGINAL

DISTRICT COPY

SERVICE OPERATIONS CONTRACT  
TERMS NET 30 DAYS FROM DATE OF CONTRACT

P.O. Box 4442, Houston, Tx. 77210  
REMIT TO: P.O. Box 200416, Houston, Tx. 77216

CUSTOMER ACCOUNT NO.		DIST NUMBER		DATE	SERVICE CONTRACT NO.
CUSTOMER		WELL NO.		NEW WELL <input type="checkbox"/>	WELL TYPE
ADDRESS		LEASE		OLD WELL <input type="checkbox"/>	JOB NUMBER
CITY		COUNTY/PARISH		STATE	
STATE		FIELD NAME		CODE	
ZIP		WELL OWNER		CODE	
AUTHORIZED BY		ORDER NO.		PUMPING EQUIPMENT	
STAGE NO.		TYPE JOB		TIME (A OR P)	
TOTAL PREV. GALS.		WORKING DEPTH		DATE	
TOTAL MEAS. DEPTH		SURFACE <input type="checkbox"/>		TRUCK CALLED	
FT.		INTERMEDIATE <input type="checkbox"/>		ARRIVED AT JOB	
PRESSURE		PRODUCTION <input checked="" type="checkbox"/>		START OPERATION	
AVG. P.S.I.		REMEDIAL <input type="checkbox"/>		FINISH OPERATION	
MAX. P.S.I.		SIZE HOLE		TIME RELEASED	
PACKER DEPTH		DEPTH		MILES FROM STATION TO WELL	
FLUID		DEPTH		SALESMAN NUMBER	
RELEASED		DEPTH			

MAX. BPM	REVENUE EQUIPMENT (UNIT NUMBERS)	EMPLOYEES ON JOB (EMPLOYEE NUMBER)
6	6430	APR 30 1991
S/S EMPLOYEE NUMBER	FROM CONFIDENTIAL	
66454		

BLENDS										CEMENT <input type="checkbox"/>	FRAC <input type="checkbox"/>	ACID <input type="checkbox"/>	SAND CONTROL <input type="checkbox"/>
PRICE BOOK REF.	PART NO.	U/M	QTY.	PART NO.	U/M	QTY.	PART NO.	U/M	QTY.				

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 TITAN SERVICES.

PRICE BOOK: 67  
 SIGNED: [Signature]  
 (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	PRICE EXTENSION
1011015170	1	2 1/2" H-10	379.00	E	379.00
1011015135	20	7/8" H-10	9.20	E	184.00
1011015191	1	5/8" H-10	69.00	E	69.00
1011019005	46	1 1/2" H-10	110.00	E	5060.00
1011015104	260	1 1/2" H-10	5.20	E	1352.00
1011015113	90	7/8" H-10	2.80	E	252.00
1011015110	7.05	H-10	14.50	E	102.23
1011015112	1.0	H-9	52.00	E	52.00
1011015149	113	H-7 1/2	0.70	E	79.10
1011015111	210	H-10	0.30	E	63.00

SERVICE REPRESENTATIVE: [Signature]  
 THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]

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.



ORIGINAL

CONTRACT NO. 521651

DATE OF JOB: MM 07 DD 09 YY 09  
 DISTRICT: 1160100  
 DIST. NO.: 2-7  
 AUTHORIZED BY: [Signature]  
 CUSTOMER: TVC FROM 1011

PRICE BOOK: 07

PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	PRICE EXTENSION
10432307	47	FL-10	6.35	L	298.45
10474144	14.79	IT 110	6.75	L	99.83
10320001	350	THINNING	1.50	L	525.00
10940101	409.4	THINNING 17.3 X	1.10	L	450.34
10409001	1	4 1/2" THINNING	310.00	L	310.00
10409001	1	4 1/2" INVERT	101.00	L	101.00
10409001	1	4 1/2" DV TOOL	1310.00	L	1310.00
10409001	3	4 1/2" DITCHER	100.00	L	300.00
10409001	3	4 1/2" POSITIONING	41.50	L	124.50
		LOCK W/		L	877.00
				L	17.30
		7000		L	7029.04

SERVICE REPRESENTATIVE: [Signature]

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]

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 correction by our Accounting Department.



# BJ-TITAN SERVICES ORIGINAL CEMENTING LOG

P.O. BOX 4442 HOUSTON, TX 77240

# ORIGINAL CEMENTING LOG

**CONFIDENTIAL**

STAGE NO. 2  
TOI

Date 2-7-90 District Med. Woods Ticket No. 221156  
 Company TXC TRAIL CORP Rig TRAIL IN #1  
 Lease TRAIL Well No. D-1  
 County FARELE State KANSAS

Location LARON (WHEEL, W. TO DS, 1 1/2, 1 1/2, 1 1/2 N) Field \_\_\_\_\_

CASING DATA: PTA  Squeeze   
 Surface  Intermediate  Production  Liner   
 Size 4 1/2" Type LEAD Weight 16.5# Collar 3IC

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

Drill Pipe: Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size 7 7/8" T.D. 2100 ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. .0159 Lin. ft./Bbl. 63.69  
 Open Holes: Bbls/Lin. ft. .0802 Lin. ft./Bbl. 12.59  
 Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbls/Lin. ft. .0406 Lin. ft./Bbl. 24.64  
 Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

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

CEMENT DATA:

Spacer Type: 200 Gallons 2% Pot Water  
 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 60:40:6  
6" POL-2M Excess \_\_\_\_\_

Amt. 225 Skys Yield 1.66 ft<sup>3</sup>/sk Density 15.3 PPG

WATER: Lead \_\_\_\_\_ gals/sk Tail 3.5 gals/sk Total 42 Bbls.

Pump Trucks Used 2901-6450 ROL U  
 Bulk Equip. 2904-6435 JOHN V.

Float Equip: Manufacturer DAWELL - ARROW  
 Shoe: Type DAWELL - ARROW Depth 4757  
 Float: Type DAWELL - ARROW Depth 4399  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm \_\_\_\_\_  
 Stage Collars ARROW DV TOOL 10 4170  
 Special Equip. 3 FAYETTE  
 Disp. Fluid Type FA-11100 Amt. 68 Bbls. Weight 3.4 PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

COMPANY REPRESENTATIVE REV CHAMBERS

CEMENTER ALAN LAMBERT

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						TOP PART FOR DV TOOL
	900					INCREASE PRESSURE + OPEN TOOL
	300					RELEASE FOR 3 HOURS
	250					HOOK UP TO MUDPUMP LEAD
	200		12	12	5	START KOL FLOW
	150		15	5	4 1/2	KOL FLOWING - NOW USE 2000
			31 1/2	6 1/2		START TAIL
						TAIL IN - STOP LEAD
						CHANGE VALVE - FULL CONNECTION
						CHANGE VALVE - RELEASE TAIL
	50					START DEPRESSURE
	600		115 1/2	34		CHANGE PRESSURE INCREASE
2:15	1450		149 1/2	34		2 WIP TAIL
						RELEASE PRESSURE - TOP - TAKE WELL
						USE ROTARY + MUDPUMP WITH
						2500 SURF-PUMP

FINAL DISP. PRESS: 600 PSI BUMP PLUG TO 1450 PSI BLEEDBACK 1/2 BBLs. THANK YOU

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

# ORIGINAL CEMENTING LOG

P.O. BOX 4442 HOUSTON, TX 77210

STAGE NO. 1

Bottom

Date 2-6-90 District MED. LOGS Ticket No. 25122  
 Company TXO INC. (B) Rig TRAN-100#1  
 Lease 25122 Well No. 2-1  
 County 25122 State TEXAS  
 Location \_\_\_\_\_ Field \_\_\_\_\_  
LANCO (UNIT), W 1015, 14, 14 1/2, 14

CEMENT DATA:  
 Spacer Type: 200 CALIBRE 2% HCL WATER  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

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

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

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

TAIL: Pump Time \_\_\_\_\_ hrs. Type SR-770  
4% HCL, 4% FL-10 Excess \_\_\_\_\_  
 Amt. 100 Sks Yield 1.44 ft<sup>3</sup>/sk Density 14.3 PPG  
 WATER: Lead \_\_\_\_\_ gals/sk Tail 6.2 gals/sk Total 15 Bbls.

Drill Pipe: Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size 7 7/8" T.D. 2100 ft. P.B. to \_\_\_\_\_ ft.

Pump Trucks Used 2701-6430 LEO  
 Bulk Equip. 2704-6430 JOHN K.

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. .0159 Lin. ft./Bbl. 62.69  
 Open Holes: Bbls/Lin. ft. .0602 Lin. ft./Bbl. 16.29  
 Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbls/Lin. ft. .0406 Lin. ft./Bbl. 24.64  
 Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

Float Equip. Manufacturer LAVER - ARROW  
 Shoe: Type TAPER - LAVER Depth 497  
 Float: Type FCV - LAVER Depth 4599  
 Centralizers: Quantity 3 Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_  
 Stage Collars DR TOOL & HISE (M.HOB.)  
 Special Equip. 3 BATT.  
 Drsp. Fluid Type 2011-1/2 HCL Amt. \_\_\_\_\_ Bbls. Weight \_\_\_\_\_ PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

COMPANY REPRESENTATIVE ALX CRAVENS

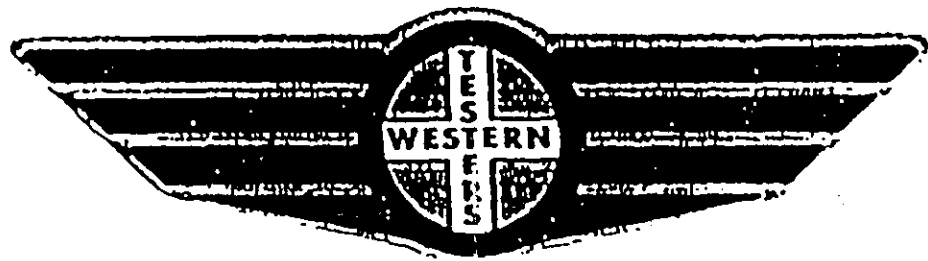
CEMENTER KEVIN HILGARDT

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls. Min	
6:30						ON LOCATION, L.L.C. JOB # _____
						RUN 4 1/2" CASING LAVER PERFORATION OPEN TAPER SHOE
10:00						TRIP DOWN FOR INSERT, 1000' 1 1/2" HCL (W/ 10% HCL) HOOK UP TO CEMENT
	300				6	START HCL FLUSH
	400		15	12	7	HCL FLUSH IN - START SURF-FILL
	150		27 1/2	2 1/2		SURF FILL IN - STOP PUMP CHANGE VALVE - FLUSH TUBING CHANGE VALVE - RELEASE TUB
	100				3	SHUT IN INTERMEDIATE
	150		29 1/2	2	6	INJECT HCL - STAGE 1 HCL
	150		36	40 1/2		HCL TURN SHOE
	50		90	30	3	CEMENT TURN SHOE - STOP HCL
	30		95	5	3	CEMENT PRESSURE INCREASE
11:15	950		117 1/2	23 1/2		STOP PUMP RELEASE PRESSURE - FLOOR LOG UNIT RELEASE TUBING & SURF IN FOR COLLAR RELEASE PRESSURE & FLOOR LOG UNIT

FINAL DISP. PRESS: 350 PSI BUMP PLUG TO 950 PSI BLEEDBACK 1/4 BBLs. THANK YOU

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

FORMATION  
TEST  
REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY TXO PRODUCTION CORPORATION LEASE & WELL NO. SPRIGGS D-1 SEC. 33 TWP 33E RGE 13W TEST 1 DATE 2/1/90

# ORIGINAL

## WESTERN TESTING CO. INC. SUBSURFACE PRESSURE SURVEY

DATE : 2/1/90  
CUSTOMER : TXO PRODUCTION CORPORATION  
WELL : D-1 TEST: 1  
ELEVATION : 1725 KB  
SECTION : 33  
RANGE : 13W COUNTY : BARBER  
GAUGE SN# : 13552 RANGE : 4050  
TICKET : 15593  
LEASE : SPRIGGS  
GEOLOGIST : VEATCH  
FORMATION : DOUGLAS SD  
TOWNSHIP : 33S  
STATE : KANSAS  
CLOCK : 12

INTERVAL FROM : 3958 TO : 3992 TOTAL DEPTH : 3992  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3953 SIZE : 6.63  
PACKER DEPTH : 3958 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : TRANS-PAC DRILLING RIG #1  
MUD TYPE : CHEMICAL VISCOSITY : 47  
WEIGHT : 9. WATER LOSS (CC) : 11.6  
CHLORIDES (PPM) : 7500  
JARS-MAKE : WTC SERIAL NUMBER : 407  
DID WELL FLOW ? : YES REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 210 FT I.D. inch : 2.20  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 3716 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 32 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 34 FT ANCHOR SIZE : 5.50  
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75  
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 FH

BLOW COMMENT #1 : INITIAL FLOW PERIOD-STRONG BLOW THROUGHOUT  
BLOW COMMENT #2 : GAS TO SURFACE IN 5 MINUTES-SEE FLOW CHART  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :



# ORIGINAL

RECOVERED : 70 FT OF: GAS CUT MUD

Total Barrels Fluid = 0.33  
Total Fluid Prod Rate = 6.32 BFPD  
Indicated Wtr Rate = 0.63 BWPD

REMARK 1 :  
REMARK 2 : -  
REMARK 3 :  
REMARK 4 :

SET PACKER(S) : 3:30 PM

TIME STARTED OFF BOTTOM : 7:15 PM

WELL TEMPERATURE : 109

INITIAL HYDROSTATIC PRESSURE

(A) 1934

INITIAL FLOW PERIOD MIN: 30

(B) 102 PSI TO (C) : 102

INITIAL CLOSED IN PERIOD MIN: 60

(D) 1348

FINAL FLOW PERIOD MIN: 45

(E) 112 PSI TO (F) : 112

FINAL CLOSED IN PERIOD MIN: 90

(G) 1523

FINAL HYDROSTATIC PRESSURE

(H) 1918

ORIGINAL

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
-----

COMPANY : TXO PRODUCTION CORPORATION  
RIG : BARBER-KANSAS  
FIELD : SPRIGGS  
WELL : D-1  
DATE : 2/1/90  
GAUGE NO : 13552

OPERATIONAL COMMENTS

# ORIGINAL

COMPANY : TXO PRODUCTION CORPORATION  
 WELL : D-1  
 GAUGE # : 13552  
 DATE : 1/ 2/90

FIELD : SPRIGGS  
 JOB # : 15593  
 DEPTH : 3992  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	3:30: 0	0.000	102.000	109.00	0.000
3	3:34:59	0.083	102.000	109.00	0.000
4	3:40: 0	0.167	102.000	109.00	0.000
5	3:45: 0	0.250	102.000	109.00	0.000
6	3:49:59	0.333	102.000	109.00	0.000
7	3:55: 0	0.417	102.000	109.00	0.000
8	4: 0: 0	0.500	102.000	109.00	0.000
INITIAL SHUT-IN PERIOD					
9	4: 3: 0	0.550	102.000	109.00	0.000
10	4: 6: 0	0.600	102.000	109.00	0.000
11	4: 9: 0	0.650	104.000	109.00	2.000
12	4:12: 0	0.700	107.000	109.00	3.000
13	4:15: 0	0.750	113.000	109.00	6.000
14	4:18: 0	0.800	120.000	109.00	7.000
15	4:21: 0	0.850	128.000	109.00	8.000
16	4:24: 0	0.900	137.000	109.00	9.000
17	4:27: 0	0.950	153.000	109.00	16.000
18	4:30: 0	1.000	185.000	109.00	32.000
19	4:33: 0	1.050	231.000	109.00	46.000
20	4:36: 0	1.100	326.000	109.00	95.000
21	4:39: 0	1.150	459.000	109.00	133.000
22	4:42: 0	1.200	597.000	109.00	138.000
23	4:45: 0	1.250	732.000	109.00	135.000
24	4:48: 0	1.300	872.000	109.00	140.000
25	4:51: 0	1.350	1024.000	109.00	152.000
26	4:54: 0	1.400	1156.000	109.00	132.000
27	4:57: 0	1.450	1280.000	109.00	124.000
28	5: 0: 0	1.500	1348.000	109.00	68.000
FINAL FLOW PERIOD					
29	5: 1: 0	1.517	112.000	109.00	-1236.000
30	5: 4:59	1.583	112.000	109.00	0.000
31	5:10: 0	1.667	112.000	109.00	0.000
32	5:15: 0	1.750	112.000	109.00	0.000
33	5:19:59	1.833	112.000	109.00	0.000
34	5:25: 0	1.917	112.000	109.00	0.000
35	5:30: 0	2.000	112.000	109.00	0.000
36	5:34:59	2.083	112.000	109.00	0.000
37	5:40: 0	2.167	112.000	109.00	0.000
38	5:45: 0	2.250	112.000	109.00	0.000
FINAL SHUT-IN PERIOD					
39	5:48: 0	2.300	507.000	109.00	395.000
40	5:51: 0	2.350	877.000	109.00	370.000
41	5:54: 0	2.400	1161.000	109.00	284.000
42	5:57: 0	2.450	1333.000	109.00	172.000
43	6: 0: 0	2.500	1430.000	109.00	97.000
44	6: 3: 0	2.550	1467.000	109.00	37.000
45	6: 6: 0	2.600	1488.000	109.00	21.000
46	6: 9: 0	2.650	1498.000	109.00	10.000
47	6:12: 0	2.700	1503.000	109.00	5.000
48	6:15: 0	2.750	1509.000	109.00	6.000

# ORIGINAL

COMPANY : TXO PRODUCTION CORPORATION  
 WELL : D-1  
 GAUGE # : 13552  
 DATE : 1/ 2/90

FIELD : SPRIGGS  
 JOB # : 15593  
 DEPTH : 3992  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	6:18: 0	2.800	1513.000	109.00	4.000
50	6:21: 0	2.850	1515.000	109.00	2.000
51	6:24: 0	2.900	1516.000	109.00	1.000
52	6:27: 0	2.950	1517.000	109.00	1.000
53	6:30: 0	3.000	1518.000	109.00	1.000
54	6:33: 0	3.050	1518.000	109.00	0.000
55	6:36: 0	3.100	1519.000	109.00	1.000
56	6:39: 0	3.150	1519.000	109.00	0.000
57	6:42: 0	3.200	1520.000	109.00	1.000
58	6:45: 0	3.250	1520.000	109.00	0.000
59	6:48: 0	3.300	1521.000	109.00	1.000
60	6:51: 0	3.350	1521.000	109.00	0.000
61	6:54: 0	3.400	1522.000	109.00	1.000
62	6:57: 0	3.450	1512.000	109.00	-10.000
63	7: 0: 0	3.500	1523.000	109.00	11.000
64	7: 3: 0	3.550	1523.000	109.00	0.000
65	7: 6: 0	3.600	1523.000	109.00	0.000
66	7: 9: 0	3.650	1523.000	109.00	0.000
67	7:12: 0	3.700	1523.000	109.00	0.000
68	7:15: 0	3.750	1523.000	109.00	0.000

WESTERN TESTING CO. INC.



ORIGINAL

GAS FLOW REPORT

Date : 2/1/90 Ticket # : 15593  
Customer : TXO PRODUCTION CORPORATION Lease : SPRIGGS  
Well : D-1 Test : 1 Geologist : VEATCH  
Elevation (KB) : 1725 KB Formation : DOUGLAS SD  
Section : 33 Township : 33S  
Range : 13W County : BARBER State : KANSAS  
Gauge SN # : 13552 Range : 4050 Clock : 12

TIME GAUGE (MIN)	TESTER TYPE	ORFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
---------------------	-------------	----------------	-------------------	------------------

PRE FLOW  
=====

SECOND FLOW  
=====

10	MERLA	1/2	17"WTR	25800 CFPD
15	MERLA	1/2	22"WTR	29400 CFPD
25	MERLA	1/2	34"WTR	36500 CFPD
35	MERLA	1/2	40"WTR	39600 CFPD
45	MERLA	1/2	46"WTR	42500 CFPD

Gas Bottle SN # :  
Date Bottle Filled :  
Date to be Invoiced :

ORIGINAL

FLUID SAMPLE REPORT

Date : 2/1/90 Ticket No. : 15593

Company : TXO PRODUCTION CORPORATION

Well Name & No. : SPRIGGS D-1

DST No. 1

County : BARBER State : KANSAS

Sampler No. : 1 Test Interval : 3958-3992

=====  
Pressure in Sampler 30 PSIG BHT 109 Deg F

Total Volume of Sampler : 3150 cc  
Total Volume of Sample : cc  
Oil: cc  
Water: cc  
Mud: 1500 cc  
Gas: 4.40 cu ft  
Other: cc  
=====

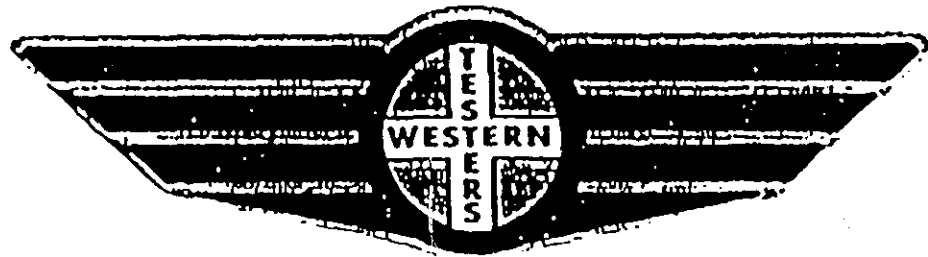
RESITIVITY

Drilling Mud @ F Chloride Content ppm  
Mud Pit Sample .21 @ 57 F Chloride Content 7000 ppm  
Gas/Oil Ratio Gravity API @ Deg F

Where was sample drained

Remarks:

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY TXO PRODUCTION CORPORATION  
LEASE & WELL NO. SPRIGGS D-1  
SEC. 33 TWP 33S RGE. 13W TEST 2 DATE 2/4/90

# ORIGINAL

## WESTERN TESTING CO. INC. SUBSURFACE PRESSURE SURVEY

DATE : 2/4/90  
CUSTOMER : TXO PRODUCTION CORPORATION  
WELL : D-1 TEST: 2  
ELEVATION : 1725 KB  
SECTION : 33  
RANGE : 13W COUNTY : BARBER  
GAUGE SN# : 13552 RANGE : 4050  
TICKET : 15594  
LEASE : SPRIGGS  
GEOLOGIST : VEATCH  
FORMATION : MISSISSIPPI  
TOWNSHIP : 33S  
STATE : KANSAS  
CLOCK : 12

INTERVAL FROM : 4737 TO : 4780 TOTAL DEPTH : 4780  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 4732 SIZE : 6.63  
PACKER DEPTH : 4737 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : TRANSPAC DRILLING RIG #1  
MUD TYPE : CHEMICAL VISCOSITY : 46  
WEIGHT : 8.8 WATER LOSS (CC) : 8.  
CHLORIDES (PPM) : 2800  
JARS-MAKE : WTC SERIAL NUMBER : 407  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 210 FT I.D. inch : 2.20  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 4498 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 29 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 43 FT ANCHOR SIZE : 5.50  
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75  
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 FH

BLOW COMMENT #1 : INITIAL FLOW PERIOD-WEAK TO FAIR FIRST FLOW  
BLOW COMMENT #2 : FINAL FLOW PERIOD-STRONG THROUGHOUT SECOND FLOW  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :



# ORIGINAL

RECOVERED : 20 FT OF: DRILLING MUD

Total Barrels Fluid = 0.09  
Total Fluid Prod Rate = 1.50 BFPD  
Indicated Wtr Rate = 0.02 BWPD

REMARK 1 :  
REMARK 2 :  
REMARK 3 :  
REMARK 4 :

SET PACKER(S) :	12:30 PM	TIME STARTED OFF BOTTOM :	5:00 PM
WELL TEMPERATURE :	120		
INITIAL HYDROSTATIC PRESSURE		(A)	2287
INITIAL FLOW PERIOD MIN:	30	(B)	98 PSI TO (C) : 98
INITIAL CLOSED IN PERIOD MIN:	57	(D)	230
FINAL FLOW PERIOD MIN:	60	(E)	95 PSI TO (F) : 95
FINAL CLOSED IN PERIOD MIN:	120	(G)	1190
FINAL HYDROSTATIC PRESSURE		(H)	2261

ORIGINAL

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
-----

COMPANY : TXO PRODUCTION CORPORATION  
RIG : BARBER-KANSAS  
FIELD : SPRIGGS  
WELL : D-1  
DATE : 2/4/90  
GAUGE NO : 13552

OPERATIONAL COMMENTS

COMPANY : TXO PRODUCTION CORPORATION  
WELL : D-1  
GAUGE # : 13552  
DATE : 4/ 2/90

FIELD : SPRIGGS  
JOB # : 15594  
DEPTH : 4780  
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	12:30: 0	0.000	98.000	120.00	0.000
3	12:34:59	0.083	98.000	120.00	0.000
4	12:40: 0	0.167	98.000	120.00	0.000
5	12:45: 0	0.250	98.000	120.00	0.000
6	12:49:59	0.333	98.000	120.00	0.000
7	12:55: 0	0.417	98.000	120.00	0.000
8	13: 0: 0	0.500	98.000	120.00	0.000
INITIAL SHUT-IN PERIOD					
9	13: 3: 0	0.550	98.000	120.00	0.000
10	13: 6: 0	0.600	98.000	120.00	0.000
11	13: 9: 0	0.650	98.000	120.00	0.000
12	13:12: 0	0.700	102.000	120.00	4.000
13	13:15: 0	0.750	105.000	120.00	3.000
14	13:18: 0	0.800	108.000	120.00	3.000
15	13:21: 0	0.850	109.000	120.00	1.000
16	13:24: 0	0.900	110.000	120.00	1.000
17	13:27: 0	0.950	112.000	120.00	2.000
18	13:30: 0	1.000	119.000	120.00	7.000
19	13:33: 0	1.050	123.000	120.00	4.000
20	13:36: 0	1.100	125.000	120.00	2.000
21	13:39: 0	1.150	127.000	120.00	2.000
22	13:42: 0	1.200	129.000	120.00	2.000
23	13:45: 0	1.250	132.000	120.00	3.000
24	13:48: 0	1.300	142.000	120.00	10.000
25	13:51: 0	1.350	176.000	120.00	34.000
26	13:54: 0	1.400	210.000	120.00	34.000
27	13:57: 0	1.450	230.000	120.00	20.000
FINAL FLOW PERIOD					
28	13:58: 0	1.467	95.000	120.00	-135.000
29	14: 1:59	1.533	95.000	120.00	0.000
30	14: 7: 0	1.617	95.000	120.00	0.000
31	14:12: 0	1.700	95.000	120.00	0.000
32	14:16:59	1.783	95.000	120.00	0.000
33	14:22: 0	1.867	95.000	120.00	0.000
34	14:27: 0	1.950	95.000	120.00	0.000
35	14:31:59	2.033	95.000	120.00	0.000
36	14:37: 0	2.117	95.000	120.00	0.000
37	14:42: 0	2.200	95.000	120.00	0.000
38	14:46:59	2.283	95.000	120.00	0.000
39	14:52: 0	2.367	95.000	120.00	0.000
40	14:57: 0	2.450	95.000	120.00	0.000
FINAL SHUT-IN PERIOD					
41	15: 0: 0	2.500	120.000	120.00	25.000
42	15: 3: 0	2.550	175.000	120.00	55.000
43	15: 6: 0	2.600	233.000	120.00	58.000
44	15: 9: 0	2.650	297.000	120.00	64.000
45	15:12: 0	2.700	353.000	120.00	56.000
46	15:15: 0	2.750	412.000	120.00	59.000
47	15:18: 0	2.800	463.000	120.00	51.000
48	15:21: 0	2.850	519.000	120.00	56.000

COMPANY : TXO PRODUCTION CORPORATION  
 WELL : D-1  
 GAUGE # : 13552  
 DATE : 4/ 2/90

FIELD : SPRIGGS  
 JOB # : 15594  
 DEPTH : 4780  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	15:24: 0	2.900	568.000	120.00	49.000
50	15:27: 0	2.950	615.000	120.00	47.000
51	15:30: 0	3.000	659.000	120.00	44.000
52	15:33: 0	3.050	708.000	120.00	49.000
53	15:36: 0	3.100	745.000	120.00	37.000
54	15:39: 0	3.150	780.000	120.00	35.000
55	15:42: 0	3.200	825.000	120.00	45.000
56	15:45: 0	3.250	857.000	120.00	32.000
57	15:48: 0	3.300	890.000	120.00	33.000
58	15:51: 0	3.350	917.000	120.00	27.000
59	15:54: 0	3.400	944.000	120.00	27.000
60	15:57: 0	3.450	974.000	120.00	30.000
61	16: 0: 0	3.500	993.000	120.00	19.000
62	16: 3: 0	3.550	1015.000	120.00	22.000
63	16: 6: 0	3.600	1033.000	120.00	18.000
64	16: 9: 0	3.650	1051.000	120.00	18.000
65	16:12: 0	3.700	1068.000	120.00	17.000
66	16:15: 0	3.750	1088.000	120.00	15.000
67	16:18: 0	3.800	1095.000	120.00	12.000
68	16:21: 0	3.850	1106.000	120.00	11.000
69	16:24: 0	3.900	1118.000	120.00	12.000
70	16:27: 0	3.950	1129.000	120.00	11.000
71	16:30: 0	4.000	1139.000	120.00	10.000
72	16:33: 0	4.050	1147.000	120.00	8.000
73	16:36: 0	4.100	1153.000	120.00	6.000
74	16:39: 0	4.150	1161.000	120.00	8.000
75	16:42: 0	4.200	1167.000	120.00	6.000
76	16:45: 0	4.250	1173.000	120.00	6.000
77	16:48: 0	4.300	1177.000	120.00	4.000
78	16:51: 0	4.350	1182.000	120.00	5.000
79	16:54: 0	4.400	1185.000	120.00	3.000
80	16:57: 0	4.450	1190.000	120.00	5.000

WESTERN TESTING CO. INC.