

CONFIDENTIAL ORIGINAL

RELEASED

MAY 28 1991

SIDE ONE

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

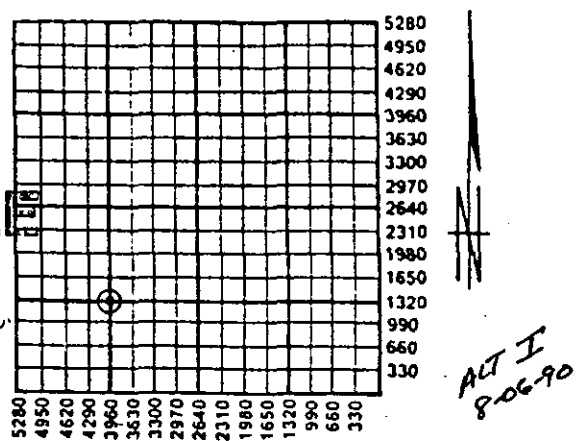
Operator: License # 5171
 Name: TXO Production Corp.
 Address: 1660 Lincoln Street
Suite 1800
 City/State/Zip: Denver, CO 80264
 Purchaser: Phenix Transmission Company
 Operator Contact Person: Cory West
 Phone (303) 861-4246
 Contractor: Name: Eagle Drilling, Inc.
 License: 5380
 Wellsite Geologist: Kenneth M. LeBlanc

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

TIGHT HOLE

If OAWO: old well info as follows:
 Operator:
 Well Name:
 Comp. Date Old Total Depth
 Drilling Method:
 Mud Rotary Air Rotary Cable
4-22-90 4-29-90 5-16-90
 Spud Date Date Reached TD Completion Date

API NO. 15- 007-22,311-0000 FROM CONFIDENTIAL
 County Barber
 C SW Sec. 26 Twp. 33 Rge. 14 East West
1320 Ft. North from Southeast Corner of Section
3960 Ft. West from Southeast Corner of Section
 (NOTE: Locate well in section plat below.)
 Lease Name Ellis "G" Well # I
 Field Name Aetna
 Producing Formation Mississippian
 Elevation: Ground 1831' KB 1842'
 Total Depth 5000' PBTD 4954'



Amount of Surface Pipe Set and Cemented at 1018' 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 [Signature]
 Title Area Drlg and Prod. Engineer Date 4-21-90
 Subscribed and sworn to before me this 23 day of May, 1990.
 Notary Public [Signature]
 Date Commission Expires 11-03-92

K.C.C. OFFICE USE ONLY		
F	<input checked="" type="checkbox"/> Letter of Confidentiality Attached	
C	<input checked="" type="checkbox"/> Wireline Log Received	
C	<input type="checkbox"/> Drillers Timelog Received	
Distribution		
<input checked="" type="checkbox"/> KCC	<input type="checkbox"/> SMD/Rep	<input type="checkbox"/> NGPA
<input type="checkbox"/> KGS	<input type="checkbox"/> Plug	<input type="checkbox"/> Other (Specify)

PT

SIDE TWO

Operator Name TXO Production Corp.

Lease Name Ellis "G"

Well # 1

Sec. 26 Twp. 33S Rge. 14 East West

County Barber

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, mud 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.

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Drill Stem Tests Taken Yes No
(Attach Additional Sheets.) Refer to Attachments
Samples Sent to Geological Survey Yes No
Cores Taken Yes No
Electric Log Run Yes No
(Submit Copy.)

Formation Description
 Log Sample
FROM CONFIDENTIAL

Name	Top	Bottom
Kanwaka Sh	3853	2011
Heebner	4038	2196
LKC	4218	2376
Swope	4624	2782
Miss	4798	2956

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"	24.0#	1018'	Lite	375	3% cc
Production	7-7/8"	4-1/2"	10.5#	4998'	Class "A" Surefill	175 150	3% gel. + 2% cc 5#/sx gilsonite + 1/2#/sx celloflake

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	4801', 03', 05', 07', 10', 13', 24', 26', 28', 30', 32', 34', 94', 96', 98', 4900', 02', 04', 18 holes total	2500 gals 15% HCL followed by CO ₂ frac - 108,000# 12/20 sand, 59,900 gals pure - gel, 110 tons CO ₂	

TUBING RECORD Size 2-3/8" Set At 4724' 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 Approx 2000 MCFD Water Bbls. ±10 BWPD Gas-Oil Ratio Gravity

Disposition of Gas: Vented To be Used on Lease Sold (If vented, submit ACO-18.)
METHOD OF COMPLETION: Open Hole Perforation Dually Completed Commingled
 Other (Specify)



P.O. Box 4442
Houston, Tx: 77210

DISTRICT COPY
ORIGINAL

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

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

CUSTOMER ACCOUNT NO.		DIST NAME <i>MED. LOOSE</i>		DATE <i>4-22-90</i>	SERVICE CONTRACT NO. 610744
CUSTOMER <i>TWO TREE CORP.</i>		DIST NUMBER <i>550</i>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>	WELL TYPE <i>6</i>
ADDRESS <i>P.O. 1, Box 125 E</i>		COUNTY <i>PANOLA</i>		LEASE NAME & FEDERAL OFFSHORE LEASE NO. <i>81125 13</i>	JOB NUMBER <i>50027</i>
CITY <i>MEDICINE LOOSE</i>		STATE <i>KANSAS</i>		ZIP <i>67104</i>	FIELD NAME <i>HEINA</i>
AUTHORIZED BY <i>J.O. STEWERT</i>		ORDER NO.		WELL OWNER <i>TWO TREE CORP.</i>	MTA CODE
STAGE NO.	JOB CODE <i>0100</i>	WORKING DEPTH <i>1018</i>	FT.	PUMPING EQUIPMENT	TIME (A OR P)
TOTAL PREV. GALS.	SURFACE <input checked="" type="checkbox"/> INTERMEDIATE <input type="checkbox"/> PRODUCTION <input type="checkbox"/> REMEDIAL <input type="checkbox"/>			TRUCK CALLED	<i>12:00 P</i>
TOTAL MEAS. DEPTH	SIZE HOLE <i>1 3/4"</i>	DEPTH <i>1160</i>	FT.	ARRIVED AT JOB	<i>12:00 P 042291</i>
FT.	SIZE & WT. CASING <i>3 1/2" 54"</i>	DEPTH <i>1013</i>	FT.	START OPERATION	<i>5:10 P 042291</i>
AVG. PSI.	PACKER DEPTH	FLUID PUMPED		FINISH OPERATION	<i>5:45 P 042291</i>
MAX. PSI.				TIME RELEASED	<i>6:00 P</i>
MAX. BPM				MILES FROM STATION TO WELL <i>44</i>	SALESMAN NUMBER
S/S EMPLOYEE NUMBER	REVENUE EQUIPMENT (UNIT NUMBERS)		EMPLOYEES ON JOB (EMPLOYEE NUMBER)		
<i>66654</i>	<i>6430</i>		<i>237697</i>	<i>269322</i>	<i>529244</i>
					RELEASED
					MAY 28 1991

PRICE BOOK REF.	PART NO.	U/M	QTY.	PART NO.	U/M	QTY.	PART NO.	U/M	QTY.
<i>10415005</i>	<i>4105CH</i>	<i>G</i>	<i>215</i>						
	<i>415013</i>	<i>G</i>	<i>146</i>	TIGHT HOLE					
	<i>420145</i>	<i>G</i>	<i>30</i>						

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, material, 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 condition shall become a part of this contract without the written consent of an officer of BJ SERVICES.

PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	PRICE EXTENSION
<i>104110101013</i>	<i>1</i>	<i>301-1500</i>	<i>375.00</i>	<i>F</i>	<i>375.00</i>
<i>104110101013110</i>	<i>713</i>	<i>PLUS 100 FT. TIEW</i>	<i>42</i>	<i>F</i>	<i>301.56</i>
<i>104110101019005</i>	<i>44</i>	<i>W/LEAGE, 1/2"</i>	<i>1.10</i>	<i>F</i>	<i>43.40</i>
<i>104110101015</i>	<i>375</i>	<i>ET (STATE)</i>	<i>4.74</i>	<i>Q</i>	<i>1777.50</i>
<i>1041101010101</i>	<i>175</i>	<i>CLASS H</i>	<i>5.30</i>	<i>Q</i>	<i>927.50</i>
<i>1041101010149</i>	<i>1473</i>	<i>H-7P</i>	<i>.32</i>	<i>L</i>	<i>472.96</i>
<i>1041101010145</i>	<i>3</i>	<i>ET 6E</i>	<i>6.75</i>	<i>L</i>	<i>20.25</i>
<i>1041101010101</i>	<i>550</i>	<i>W/RYING SERVICE</i>	<i>.95</i>	<i>Q</i>	<i>522.50</i>
<i>1041101010101</i>	<i>563.2</i>	<i>DRYING 25.6 X 22</i>	<i>.70</i>	<i>F</i>	<i>394.24</i>
<i>1041101010101</i>	<i>1</i>	<i>3 1/2" TOP RUBBER P/LG</i>	<i>100.00</i>	<i>F</i>	<i>100.00</i>

SERVICE REPRESENTATIVE *KEVIN BURKHART* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *J.K.O. STEWERT*
 CHECK IF CONTINUATION IS USED (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)



SERVICE OPERATIONS CONTRACT CONTINUATION

ORIGINAL

CONTRACT NO. 610744

DATE OF JOB	MM DD YY	DISTRICT	DIST. NO.	AUTHORIZED BY
012	13	90	3350	K.O. STEINERT
CUSTOMER TXO IRON CORP				

CONFIDENTIAL

PRICE BOOK	PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	PRICE EXTENSION
07	10409600	1	373" BACHELOR PLATE - B	95.25	F	95 25
	10409600	2	373" CENTRALIZERS - L	57.75	F	115 50
	10409600	2	373" BASKETS - L	170.00	F	330 00
			BOOK PRICE			# 5520 66
			LESS			995 57
			TOTAL			# 4535 14

RELEASED

MAY 28 1991

FROM CONFIDENTIAL

SERVICE REPRESENTATIVE: Y. ENLUCAROT	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Y. K.O. STEINERT
--------------------------------------	--

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

P.O. BOX 4442 HOUSTON, TX 77210

CONFIDENTIAL ORIGINAL CEMENTING LOG

STAGE NO.

Date 4-22-90 District 11621.0006 Ticket No. 610744
 Company TAC PROD. CORP. Rig FIELD 1
 Lease ELLE C Well No. 1
 County TARRANT State KAN-AS
 Location 26-335-144 Field NETMA

CEMENT DATA:
 Spacer Type: 2 1/2" FRESH H₂O
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 3 1/8" Type J-55 Weight 24# Collar 2 1/2"

LEAD: Pump Time _____ hrs. Type 5:05:1
2 1/2" H-7P Excess _____
 Amt. 375 Sks Yield 1.3 ft³/sk Density 13.3 PPG

PLUGS - 2950'
CEMENT - 1370'
 Casing Depths: Top 6' Bottom 1013'

TAIL: Pump Time _____ hrs. Type 4:15:11
2 1/2" H-7P, 1/6 BBL Excess _____
 Amt. 175 Sks Yield 1.4 ft³/sk Density 15.2 PPG

WATER: Lead 7.3 gals/sk Tail 6.5 gals/sk Total 96% Bbls.

Pump Trucks Used 2901-6430 LION PRODU
 Bulk Equip. 290A-6433 TACIA FIELD
2906-3760 HAV WOLF

Drill Pipe: Size 4 1/2" Weight 16.6" Collars X41
 Open Hole: Size 12 1/4" T.D. 1160 ft. P.B. to _____ ft.

Float Equip: Manufacturer TAMCO
 Shoe Type NO. 1170 Depth 1013

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .0637 Lin. ft./Bbl. 15.7
 Open Holes: Bbls/Lin. ft. .1453 Lin. ft./Bbl. 6.35
 Drill Pipe: Bbls/Lin. ft. .0142 Lin. ft./Bbl. 70.3
 Annulus: Bbls/Lin. ft. .0725 Lin. ft./Bbl. 13.6

Float Type TAFFLE 107E Depth 975

Centralizers: Quantity 2 Plugs Top KLBBK Btm. _____

Stage Collars _____

Special Equip. TRACKET 2 30', 120'

Disp. Fluid Type FRESH H₂O Amt. 62 1/2 Bbls. Weight 2.24 PPG

Mud Type NULL Weight _____ PPG

COMPANY REPRESENTATIVE H.C. STEWART

CEMENTER FRANZ LAURENT

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min	
2:00			RELEASED			ON CONNECTION, 1370'
			MAY 2 8 1991			Flow 3015 - Dirty MESTING
			FROM CONFIDENTIAL			Run 3 1/8" casing, BREAK 1370'. WITH H ₂ O
						126 UP TO FRESH FLUID
3:10	100				6	START FRESH WATER
	150		5	5	5	FRESH WATER IN - START LEAD
	200				3	INCREASE RATE
	250		110.5	105.5	3	LEAD IN - START TAIL
	100		147.2	41.7	9	TAIL IN - TOP TAIL
						CHANGE VALVES - RELEASE 1266
	100				6	START DISPENSING
	200				6	INCREASE RATE
	300					
	400		175%	23		CEMENT 1266 COMPLETE
5:45	500		209%	34 1/2		LEAD IN

FINAL DISP. PRESS: 400 PSI BUMP PLUG TO 500 PSI BLEEDBACK 1/4 BBLs. THANK YOU

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



P.O. Box 4442
Houston, Tx. 77210

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

ORIGINAL

SERVICE OPERATIONS CONTRACT
TERMS NET 30 DAYS FROM DATE OF CONTRACT

DATE 4-30-1990	SERVICE CONTRACT NO. 610657
NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> WELL TYPE G	JOB NUMBER 500340
WELL NO. #1	LEASE NAME & FEDERAL OFFSHORE LEASE NO. Ellis G
COUNTY/PARISH Barber	CODE 007
STATE Ks	CODE 14
CITY CODE	MTA CODE
FIELD NAME Aetna	WELL OWNER fxo Prod Corp
PUMPING EQUIPMENT	TIME (A OR P)
TRUCK CALLED	DATE MM DD YY 4 29 90
ARRIVED AT JOB	5:00 A 4/30/90
START OPERATION	10:23 A 4/30/90
FINISH OPERATION	10:55 A 4/30/90
TIME RELEASED	10:15 A
MILES FROM STATION TO WELL 44	SALESMAN NUMBER

CUSTOMER ACCOUNT NO.	DIST NAME Medicine Lodge
CUSTOMER fxo Prod Corp	DIST NUMBER 3353
ADDRESS R.R. 1 Box 125 B	CITY Medicine Lodge
STATE Kansas	ZIP 67104
AUTHORIZED BY: Gerrill Ventch	ORDER NO.

STAGE NO.	JOB CODE 0106	WORKING DEPTH FT
TOTAL PREV. GALS.	1 SURFACE <input type="checkbox"/> 2 INTERMEDIATE <input type="checkbox"/> 3 PRODUCTION <input checked="" type="checkbox"/> 4 REMEDIAL <input type="checkbox"/>	
TOTAL MEAS. DEPTH FT	SIZE HOLE 7 7/8	DEPTH 5000
SIZE & WT. CASING 4 1/2 - 10.5	DEPTH FT	
SIZE & WT. DRILL PIPE OR TUBING 4 1/2	DEPTH FT	
PACKER DEPTH	FLUID PUMPED	

REVENUE EQUIPMENT (UNIT NUMBERS)	EMPLOYEES ON JOB (EMPLOYEE NUMBER)
MAX. BPM 6	BSU6480
S/S EMPLOYEE NUMBER 502-40-8472	587627 529244
	CONFIDENTIAL

PRICE BOOK REF.	PART NO.	U/M	QTY.	PART NO.	U/M	QTY.	PART NO.	U/M	QTY.	RELEASED
										MAY 2 8 1991
TIGHT HOLE										
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 REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	PRICE EXTENSION
1101710013110	1	5001' to 7000'	1075.00	E	1879 00
1101710013115	20	Per 100' below 3000'	9.80	E	196 00
11017100901015	44	P+M	1.10		48 40
11014110151014	150	CLASS A	5.30	Q	795 00
11014115101419	141	A7-P	.32	L	45 12
11014120101415	1	BJ Gel	6.75	L	6 75
11014115101812	8	Kel Seal	33.00	L	264 00
11014121201018	38	cellulose	1.27	L	49 26
11014128101210	9	A-10	14.60	L	131 40
110141218101418	1	A-9 KCL	22.00	L	22 00

SERVICE REPRESENTATIVE: Don Saterav
 THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Gerrill Ventch
 (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.



SERVICE OPERATIONS CONTRACT CONTINUATION

ORIGINAL

CONTRACT NO. 610057

DATE OF JOB	MM DD YY	DISTRICT	DIST. NO.	AUTHORIZED BY
	4 30 90	Med Lodge	3350	Genall Vench
CUSTOMER: TXO Prod Comp				

CONFIDENTIAL

PRICE BOOK	PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	PRICE EXTENSION
	D17					
	1101941011011	178.2	Drayage 81 ton x 22	.70	E	124 74
	1101818101011	150	Mixing Charge	.95	Q	142 50
	110141019161010	1	4 1/2 Latch plug	295.00	E	295 00
	110141019161010	5	4 1/2 Cent	41.75	E	208 75
	110141019161010	1	4 1/2 Flexfill shoe	310.00	E	310 00
	110141019161010	2	4 1/2 Baskets	120.00	E	240 00
						3756 92
			less %			676 30
						3080 62

RELEASED

MAY 28 1991

FROM CONFIDENTIAL

STATE OF KANSAS
 29 1990
 CONSERVATION DIVISION
 Wichita, Kansas

SERVICE REPRESENTATIVE: Devo Salazar

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

P.O. BOX 4442 HOUSTON, TX 77210

CEMENTING LOG

ORIGINAL STAGE NO. CONFIDENTIAL

Date 4-30-90 District Med Lodge Ticket No. 610657
 Company FXD Comp Rig _____ Well No. 6-1
 Lease Ellis County Barber State Kans
 Location 26-3 14 Field _____

CEMENT DATA:
 Spacer Type: 10 bbls 2% KCL
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

CASING DATA: Squeeze Production Liner
 Surface Interm Date Weight 10.5 Collar _____
 Size 4 1/2 Type _____

LEAD: Pump Time _____ hrs. Type Class A Seal
5 lbs KCL seal + 1/2 lb cement Excess _____
 Amt. 100 Sks Yield 1.44 ft³/sk Density 14.8 PPG

TAIL: Pump Time _____ hrs. Type _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
 WATER: Lead 6.3 gals/sk Tail _____ gals/sk Total 2.3 Bbls

Casing Depths: Top _____ Bottom _____

Pump Trucks Used BSK 10400
 Bulk Equip. _____

Drill Pipe: Size 4 1/2 Weight _____ Collars _____
 Open Hole: Size _____ T.D. _____ ft P.B. to _____ ft

Float Equip: Manufacturer Baker
 Shoe: Type Flea Sh Depth 4998
 Float: Type Latch plug Depth 4954
 Centralizers: Quantity 5 Plugs Top Bitm. _____
 Stage Collars _____
 Special Equip. Latch plug
 Disp Fluid Type Fresh Amt. 79 Bbls. Weight _____ PPG
 Mud Type _____ Weight _____ PPG

CAPACITY FACTORS
 Casing: Bbls/Lin ft 0.159 Lin. ft / Bbl 62.70
 Open Holes: Bbls/Lin ft _____ Lin. ft / Bbl _____
 Drill Pipe: Bbls/Lin ft _____ Lin. ft / Bbl _____
 Annulus: Bbls/Lin ft 0.400 Lin. ft / Bbl 24.64
 Bbls/Lin ft _____ Lin. ft / Bbl _____
 Perforations From _____ ft to _____ ft Amt. _____

COMPANY REPRESENTATIVE Garroll Wetch

CEMENTER Dean Saterow

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS	
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period		RATE Bbls Min
9:55						Arrive on loc - hold safety mt - Rig up	
10:23		400			10	5	Start circulation with mud pump
10:25		300					Start 10 bbls 2% KCL Flush
10:34		150		48	38		Start cement
10:37		100				6	Cement mix - form plug loose
10:45							Start displacement
10:45						4	Plug latch in on bottle
10:52		1400		128	80		slow rate Plug lands
							RELEASED
							MAY 2 8 1991
							FROM CONFIDENTIAL

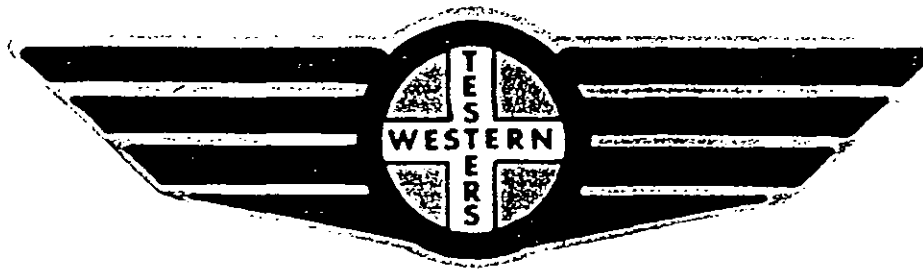
FINAL DISP. PRESS: 750 PSI BUMP PLUG TO 1400 PSI BLEEDBACK _____ BBLs. THANK YOU

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

216 - 38 0443

ORIGINAL

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY TXO PRODUCTION CORPORATION LEASE & WELL NO. ELLIS #G-1 SEC. 26 TWP. 33S RGE. 14W TEST NO. 1 DATE 4/28/90

ORIGINAL
WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 4-28-90	TICKET	: 15899
CUSTOMER	: TXO PRODUCTION CORPORATION	LEASE	: ELLIS G
WELL	: #1 TEST: 1	GEOLOGIST	: K. LE BLANC
ELEVATION	: 1842 K.B.	FORMATION	: MISSISSIPPI
SECTION	: 26	TOWNSHIP	: 33S
RANGE	: 14W COUNTY : BARBER	STATE	: KANSAS
GAUGE SN#	: 13552 RANGE : 4050	CLOCK	: 12

INTERVAL FROM	: 4773	TO	: 4850	TOTAL DEPTH	: 4850
DEPTH OF SELECTIVE ZONE	:				
PACKER DEPTH	: 4768	SIZE	: 6.63		
PACKER DEPTH	: 4773	SIZE	: 6.63		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		

DRILLING CON.	: EAGLE RIG #1		
MUD TYPE	: CHEMICAL	VISCOSITY	: 41
WEIGHT	: 9.1	WATER LOSS (CC)	: 11.2
CHLORIDES (PPM)	: 3500		
JARS-MAKE	: WTC	SERIAL NUMBER	: 407
DID WELL FLOW ?	: NO	REVERSED OUT ?	: NO

DRILL COLLAR LENGTH	: 555	FT	I.D. inch	: 2.25
WEIGHT PIPE LENGTH	: 0	FT	I.D. inch	: 0.00
DRILL PIPE LENGTH	: 4186	FT	I.D. inch	: 3.80
TEST TOOL LENGTH	: 32	FT	TOOL SIZE	: 5.50
ANCHOR LENGTH	: 77	FT	ANCHOR SIZE	: 5.50
SURFACE CHOKE SIZE	: .75	IN	BOTTOM CHOKE SIZE	: .75
MAIN HOLE SIZE	: 7.875	IN	TOOL JOINT SIZE	: 4.5FH

BLOW COMMENT #1 : STRONG BLOW THROUGHOUT BOTH FLOW PERIODS
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

ORIGINAL

RECOVERED : 20 FT OF: GAS-CUT MUD

Total Barrels Fluid = 0.10
Total Fluid Prod Rate = 1.57 BFPD
Indicated Wtr Rate = 0.16 BWPD

REMARK 1 :
REMARK 2 : 450 FT. GAS IN PIPE
REMARK 3 :
REMARK 4 :

SET PACKER(S) :	2:00 A.M.	TIME STARTED OFF BOTTOM :	6:30 A.M.
WELL TEMPERATURE :	124		
INITIAL HYDROSTATIC PRESSURE		(A)	2425
INITIAL FLOW PERIOD MIN:	30	(B)	97 PSI TO (C) : 97
INITIAL CLOSED IN PERIOD MIN:	57	(D)	188
FINAL FLOW PERIOD MIN:	60	(E)	101 PSI TO (F) : 101
FINAL CLOSED IN PERIOD MIN:	114	(G)	552
FINAL HYDROSTATIC PRESSURE		(H)	2425

ORIGINAL

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : TXO PRODUCTION CORPORATION
RIG : BARBER-KANSAS
FIELD : ELLIS G
WELL : #1
DATE : 4-28-90
GAUGE NO : 13552

OPERATIONAL COMMENTS

450 FT. GAS IN PIPE

ORIGINAL

COMPANY : TXO PRODUCTION CORPORATION
 WELL : #1
 GAUGE # : 13552
 DATE : 28/ 4/90

FIELD : ELLIS G
 JOB # : 15899
 DEPTH : 4850
 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	2: 0: 0	0.000	97.000	124.00	0.000
3	2: 4:59	0.083	97.000	124.00	0.000
4	2:10: 0	0.167	97.000	124.00	0.000
5	2:15: 0	0.250	97.000	124.00	0.000
6	2:19:59	0.333	97.000	124.00	0.000
7	2:25: 0	0.417	97.000	124.00	0.000
8	2:30: 0	0.500	97.000	124.00	0.000
INITIAL SHUT-IN PERIOD					
9	2:33: 0	0.550	97.000	124.00	0.000
10	2:36: 0	0.600	97.000	124.00	0.000
11	2:39: 0	0.650	97.000	124.00	0.000
12	2:42: 0	0.700	97.000	124.00	0.000
13	2:45: 0	0.750	97.000	124.00	0.000
14	2:48: 0	0.800	97.000	124.00	0.000
15	2:51: 0	0.850	97.000	124.00	0.000
16	2:54: 0	0.900	101.000	124.00	4.000
17	2:57: 0	0.950	107.000	124.00	6.000
18	3: 0: 0	1.000	114.000	124.00	7.000
19	3: 2:59	1.050	121.000	124.00	7.000
20	3: 6: 0	1.100	129.000	124.00	8.000
21	3: 9: 0	1.150	137.000	124.00	8.000
22	3:12: 0	1.200	147.000	124.00	10.000
23	3:15: 0	1.250	156.000	124.00	9.000
24	3:18: 0	1.300	163.000	124.00	7.000
25	3:21: 0	1.350	172.000	124.00	9.000
26	3:24: 0	1.400	180.000	124.00	8.000
27	3:27: 0	1.450	188.000	124.00	8.000
FINAL FLOW PERIOD					
28	3:28: 0	1.467	101.000	124.00	-87.000
29	3:31:59	1.533	101.000	124.00	0.000
30	3:37: 0	1.617	101.000	124.00	0.000
31	3:42: 0	1.700	101.000	124.00	0.000
32	3:46:59	1.783	101.000	124.00	0.000
33	3:52: 0	1.867	101.000	124.00	0.000
34	3:57: 0	1.950	101.000	124.00	0.000
35	4: 1:59	2.033	101.000	124.00	0.000
36	4: 7: 0	2.117	101.000	124.00	0.000
37	4:12: 0	2.200	101.000	124.00	0.000
38	4:16:59	2.283	101.000	124.00	0.000
39	4:22: 0	2.367	101.000	124.00	0.000
40	4:27: 0	2.450	101.000	124.00	0.000
FINAL SHUT-IN PERIOD					
41	4:30: 0	2.500	101.000	124.00	0.000
42	4:33: 0	2.550	101.000	124.00	0.000
43	4:36: 0	2.600	105.000	124.00	4.000
44	4:39: 0	2.650	115.000	124.00	10.000
45	4:42: 0	2.700	124.000	124.00	9.000
46	4:45: 0	2.750	134.000	124.00	10.000
47	4:48: 0	2.800	143.000	124.00	9.000
48	4:51: 0	2.850	157.000	124.00	14.000

ORIGINAL

COMPANY : TXO PRODUCTION CORPORATION
WELL : #1
GAUGE # : 13552
DATE : 28/ 4/90

FIELD : ELLIS G
JOB # : 15899
DEPTH : 4850
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	4:54: 0	2.900	169.000	124.00	12.000
50	4:57: 0	2.950	181.000	124.00	12.000
51	5: 0: 0	3.000	191.000	124.00	10.000
52	5: 3: 0	3.050	201.000	124.00	10.000
53	5: 6: 0	3.100	217.000	124.00	16.000
54	5: 9: 0	3.150	229.000	124.00	12.000
55	5:12: 0	3.200	239.000	124.00	10.000
56	5:15: 0	3.250	253.000	124.00	14.000
57	5:18: 0	3.300	266.000	124.00	13.000
58	5:21: 0	3.350	278.000	124.00	12.000
59	5:24: 0	3.400	292.000	124.00	14.000
60	5:27: 0	3.450	303.000	124.00	11.000
61	5:30: 0	3.500	317.000	124.00	14.000
62	5:33: 0	3.550	331.000	124.00	14.000
63	5:36: 0	3.600	345.000	124.00	14.000
64	5:39: 0	3.650	363.000	124.00	18.000
65	5:42: 0	3.700	378.000	124.00	15.000
66	5:45: 0	3.750	390.000	124.00	12.000
67	5:48: 0	3.800	402.000	124.00	12.000
68	5:51: 0	3.850	415.000	124.00	13.000
69	5:54: 0	3.900	428.000	124.00	13.000
70	5:57: 0	3.950	442.000	124.00	14.000
71	6: 0: 0	4.000	455.000	124.00	13.000
72	6: 3: 0	4.050	460.000	124.00	5.000
73	6: 6: 0	4.100	480.000	124.00	20.000
74	6: 9: 0	4.150	495.000	124.00	15.000
75	6:11:59	4.200	509.000	124.00	14.000
76	6:15: 0	4.250	524.000	124.00	15.000
77	6:18: 0	4.300	536.000	124.00	12.000
78	6:21: 0	4.350	552.000	124.00	16.000

WESTERN TESTING CO. INC.

ORIGINAL

FLUID SAMPLE REPORT

Date : 4-28-90

Ticket No. : 15899

Company : TXO PRODUCTION CORPORATION

Well Name & No. : ELLIS G #1

DST No. 1

County : BARBER

State : KANSAS

Sampler No. : 1

Test Interval : 4773-4850

=====

Pressure in Sampler 20 PSIG BHT 124 Deg F

Total Volume of Sampler : 2500 cc

Total Volume of Sample : 900 cc

 Oil: cc

 Water: cc

 Mud: 900 cc

 Gas: 6.9 cu ft

 Other: cc

=====

RESISTIVITY

Drilling Mud @ F Chloride Content ppm

Mud Pit Sample .49 @ 60 F Chloride Content 3500 ppm

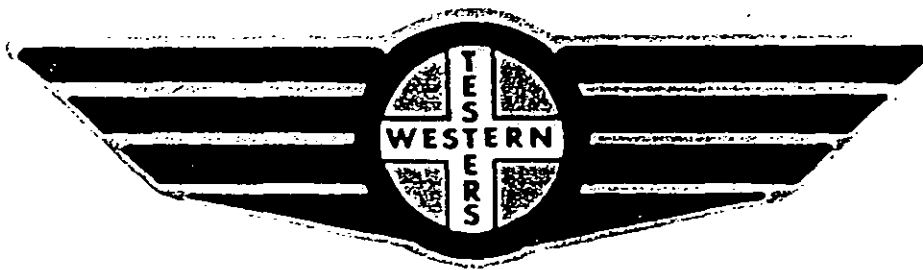
Gas/Oil Ratio Gravity API @ Deg F

Where was sample drained

Remarks:

ORIGINAL

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY TXO PRODUCTION CORPORATION LEASE & WELL NO. ELLIS #C-1

SEC. 26 TWP. 33S RGE. 14W TEST NO. 2 DATE 4/28/90

ORIGINAL

WESTERN TESTING CO. INC. SUBSURFACE PRESSURE SURVEY

DATE : 4-28-90
CUSTOMER : TXO PRODUCTION CORPORATION
WELL : #1 TEST: 2
ELEVATION : 1842 K.B.
SECTION : 26
RANGE : 14W COUNTY : BARBER
GAUGE SN# : 13552 RANGE : 4050
TICKET : 15900
LEASE : ELLIS G
GEOLOGIST : VEATCH
FORMATION : MISSISSIPPI
TOWNSHIP : 33S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 4876 TO : 4920 TOTAL DEPTH : 4920
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4871 SIZE : 6.63
PACKER DEPTH : 4876 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : EAGLE RIG #1
MUD TYPE : CHEMICAL VISCOSITY : 62
WEIGHT : 8.7 WATER LOSS (CC) : 9.0
CHLORIDES (PPM) : 3500
JARS-MAKE : WTC SERIAL NUMBER : 407
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 525 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 4322 FT I.D. inch : 3.80
TEST TOOL LENGTH : 29 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 44 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5FH

BLOW COMMENT #1 : WEAK BLOW THROUGHOUT BOTH FLOW PERIODS.
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

ORIGINAL

RECOVERED : 10 FT OF: DRILLING MUD

Total Barrels Fluid = 0.05
Total Fluid Prod Rate = 0.79 BFPD
Indicated Wtr Rate = 0.08 BWPD

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

SET PACKER(S) : 9:40 P.M.

TIME STARTED OFF BOTTOM : 1:10 A.M.

WELL TEMPERATURE : 125

INITIAL HYDROSTATIC PRESSURE

(A) 2479

INITIAL FLOW PERIOD MIN: 30

(B) 84 PSI TO (C) : 84

INITIAL CLOSED IN PERIOD MIN: 57

(D) 166

FINAL FLOW PERIOD MIN: 60

(E) 87 PSI TO (F) : 87

FINAL CLOSED IN PERIOD MIN: 114

(G) 464

FINAL HYDROSTATIC PRESSURE

(H) 2445

ORIGINAL

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : TXO PRODUCTION CORPORATION
RIG : BARBER-KANSAS
FIELD : ELLIS G
WELL : #1
DATE : 4-28-90
GAUGE NO : 13552

OPERATIONAL COMMENTS

ORIGINAL

COMPANY : TXO PRODUCTION CORPORATION
 WELL : #1
 GAUGE # : 13552
 DATE : 28/ 4/90

FIELD : ELLIS G
 JOB # : 15900
 DEPTH : 4920
 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	9:40: 0	0.000	84.000	125.00	0.000
3	9:44:59	0.083	84.000	125.00	0.000
4	9:50: 0	0.167	84.000	125.00	0.000
5	9:55: 0	0.250	84.000	125.00	0.000
6	9:59:59	0.333	84.000	125.00	0.000
7	10: 5: 0	0.417	84.000	125.00	0.000
8	10:10: 0	0.500	84.000	125.00	0.000
INITIAL SHUT-IN PERIOD					
9	10:13: 0	0.550	84.000	125.00	0.000
10	10:16: 0	0.600	84.000	125.00	0.000
11	10:19: 0	0.650	84.000	125.00	0.000
12	10:22: 0	0.700	84.000	125.00	0.000
13	10:25: 0	0.750	84.000	125.00	0.000
14	10:28: 0	0.800	88.000	125.00	4.000
15	10:31: 0	0.850	94.000	125.00	6.000
16	10:34: 0	0.900	99.000	125.00	5.000
17	10:37: 0	0.950	103.000	125.00	4.000
18	10:40: 0	1.000	111.000	125.00	8.000
19	10:43: 0	1.050	117.000	125.00	6.000
20	10:46: 0	1.100	122.000	125.00	5.000
21	10:49: 0	1.150	128.000	125.00	6.000
22	10:52: 0	1.200	135.000	125.00	7.000
23	10:55: 0	1.250	143.000	125.00	8.000
24	10:58: 0	1.300	149.000	125.00	6.000
25	11: 1: 0	1.350	154.000	125.00	5.000
26	11: 4: 0	1.400	162.000	125.00	8.000
27	11: 7: 0	1.450	166.000	125.00	4.000
FINAL FLOW PERIOD					
28	11: 8: 0	1.467	87.000	125.00	-79.000
29	11:11:59	1.533	87.000	125.00	0.000
30	11:17: 0	1.617	87.000	125.00	0.000
31	11:22: 0	1.700	87.000	125.00	0.000
32	11:26:59	1.783	87.000	125.00	0.000
33	11:32: 0	1.867	87.000	125.00	0.000
34	11:37: 0	1.950	87.000	125.00	0.000
35	11:41:59	2.033	87.000	125.00	0.000
36	11:47: 0	2.117	87.000	125.00	0.000
37	11:52: 0	2.200	87.000	125.00	0.000
38	11:56:59	2.283	87.000	125.00	0.000
39	12: 2: 0	2.367	87.000	125.00	0.000
40	12: 7: 0	2.450	87.000	125.00	0.000
FINAL SHUT-IN PERIOD					
41	12:10: 0	2.500	87.000	125.00	0.000
42	12:13: 0	2.550	91.000	125.00	4.000
43	12:16: 0	2.600	100.000	125.00	9.000
44	12:19: 0	2.650	109.000	125.00	9.000
45	12:22: 0	2.700	118.000	125.00	9.000
46	12:25: 0	2.750	130.000	125.00	12.000
47	12:28: 0	2.800	142.000	125.00	12.000
48	12:31: 0	2.850	156.000	125.00	14.000

ORIGINAL

COMPANY : TXO PRODUCTION CORPORATION
 WELL : #1
 GAUGE # : 13552
 DATE : 28/ 4/90

FIELD : ELLIS G
 JOB # : 15900
 DEPTH : 4920
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
* 49	12:34: 0	2.900	164.000	125.00	8.000
50	12:37: 0	2.950	179.000	125.00	15.000
51	12:40: 0	3.000	191.000	125.00	12.000
52	12:43: 0	3.050	203.000	125.00	12.000
53	12:46: 0	3.100	217.000	125.00	14.000
54	12:49: 0	3.150	231.000	125.00	14.000
55	12:52: 0	3.200	244.000	125.00	13.000
56	12:55: 0	3.250	261.000	125.00	17.000
57	12:58: 0	3.300	273.000	125.00	12.000
58	13: 1: 0	3.350	288.000	125.00	15.000
59	13: 4: 0	3.400	300.000	125.00	12.000
60	13: 7: 0	3.450	313.000	125.00	13.000
61	13:10: 0	3.500	323.000	125.00	10.000
62	13:13: 0	3.550	333.000	125.00	10.000
63	13:16: 0	3.600	343.000	125.00	10.000
64	13:19: 0	3.650	355.000	125.00	12.000
65	13:22: 0	3.700	367.000	125.00	12.000
66	13:25: 0	3.750	376.000	125.00	9.000
67	13:28: 0	3.800	387.000	125.00	11.000
68	13:31: 0	3.850	396.000	125.00	9.000
69	13:34: 0	3.900	404.000	125.00	8.000
70	13:37: 0	3.950	410.000	125.00	6.000
71	13:40: 0	4.000	417.000	125.00	7.000
72	13:43: 0	4.050	424.000	125.00	7.000
73	13:46: 0	4.100	431.000	125.00	7.000
74	13:49: 0	4.150	437.000	125.00	6.000
75	13:52: 0	4.200	443.000	125.00	6.000
76	13:55: 0	4.250	453.000	125.00	10.000
77	13:58: 0	4.300	458.000	125.00	5.000
78	14: 1: 0	4.350	464.000	125.00	6.000

WESTERN TESTING CO. INC.