

WESTERN TESTING COMPANY
SUBSURFACE PRESSURE SURVEY

DATE: 5/30/83
CUSTOMER: TXO PRODUCTION CORP.
WELL: 1
ELEVATION (KB): 0
SECTION: 15
RANGE: 12W
GAUGE SN #1566

TEST: 1
FORMATION: SIMPSON
TOWNSHIP: 32S
COUNTY: BARBER
RANGE: 4300

TICKET #18963
LEASE: "G" LONKER
GEOLOGIST: L GADBURY
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4730 FT TO: 4777 FT TOTAL DEPTH: 4777 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4725 FT SIZE: 6 5/8 IN Packer DEPTH: 4730 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: F W A
MUD TYPE: CHEMICAL VISCOSITY: 40
WEIGHT: 9.4 WATER LOSS (CC): 16.0
CHLORIDES (P.P.M.): 11000
JARS - MAKE: WTC SERIAL NUMBER: 422
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 280 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4421 FT I.D.: 3.2 IN
TEST TOOL LENGTH: 29 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 16 FT SIZE: 5 1/2 OD IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 IN

BLOW: STRONG.
GAS TO SURFACE 10 MINUTES INTO FINAL FLOW PERIOD.
SEE ATTACHED GAS SHEET.

RECOVERED: 90	FT	OF: GASSY SLIGHTLY OIL CUT DRILLING MUD
RECOVERED:	FT	OF: 95% MUD; 5% OIL
RECOVERED: 760	FT	OF: FREE OIL WITH 38 GRAVITY @ 72 DEGREES F.
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS: 31 FT. DRILL COLLAR IN ANCHOR ID 2.2 IN.

TIME SET PACKER(S): 4:30 PM
WELL TEMPERATURE: 125 °F
INITIAL HYDROSTATIC PRESSURE:
INITIAL FLOW PERIOD MIN: 30
INITIAL CLOSED IN PERIOD MIN: 60
FINAL FLOW PERIOD MIN: 45
FINAL CLOSED IN PERIOD MIN: 90
FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM: 8:15 PM

(A) 2364	PSI	
(B) 106	PSI TO (C) 194	PSI
(D) 944	PSI	
(E) 250	PSI TO (F) 321	PSI
(G) 944	PSI	
(H) 2329	PSI	

WESTERN TESTING COMPANY
PRESSURE DATA

TICKET #18963

LEASE: "G" LONKER

TEST: 1

GEOLOGIST: L GADBURY

FORMATION: SIMPSON

TOWNSHIP: 32S

COUNTY: BARBER

STATE: KANSAS

RANGE: 4300

CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 2364 PSI

(B) FIRST INITIAL FLOW PRESSURE: 106 PSI

(C) FIRST FINAL FLOW PRESSURE: 194 PSI

(D) INITIAL CLOSED-IN PRESSURE: 944 PSI

(E) SECOND INITIAL FLOW PRESSURE: 250 PSI

(F) SECOND FINAL FLOW PRESSURE: 321 PSI

(G) FINAL CLOSED-IN PRESSURE: 944 PSI

(H) FINAL HYDROSTATIC PRESSURE: 2329 PSI

WELL TEMPERATURE: 125 °F

OPEN TOOL: 4:30 PM

TIME - GIVEN TIME - ACTUAL

FIRST FLOW PRESSURE: 30 MIN 30 MIN

INITIAL CLOSED-IN PRESSURE: 60 MIN 60 MIN

SECOND FLOW PRESSURE: 45 MIN 45 MIN

FINAL CLOSED-IN PRESSURE:	90	MIN	90	MIN
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PRESSURE BREAKDOWN

[illegible]

PRESSURE BREAKDOWN - CONT. TICKET #18963

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
31							90	944
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WESTERN TESTING COMPANY
GAS FLOW REPORT

DATE: 5/30/83
CUSTOMER: TXO PRODUCTION CORP.
WELL: 1
ELEVATION (KB): 0
SECTION: 15
RANGE: 12W
GAUGE SN #1566

TEST: 1
FORMATION: SIMPSON
TOWNSHIP: 32S
COUNTY: BARBER
RANGE: 4300

TICKET #18963
LEASE: "G" LONKER
GEOLOGIST: L GADBURY
STATE: KANSAS
CLOCK: 12

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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PRE FLOW

SECOND FLOW

				GAS TO SURFACE
10				
12	MERLA	1/4	30"WTR	9200 CFPD
15		1/4	15"WTR	6550 CFPD
20		1/4	24"WTR	8220 CFPD
25		1/4	26"WTR	8560 CFPD
30		1/4	22"WTR	7880 CFPD
35		1/4	22"WTR	7880 CFPD
40		1/4	20"WTR	7510 CFPD
45		1/4	20"WTR	7510 CFPD

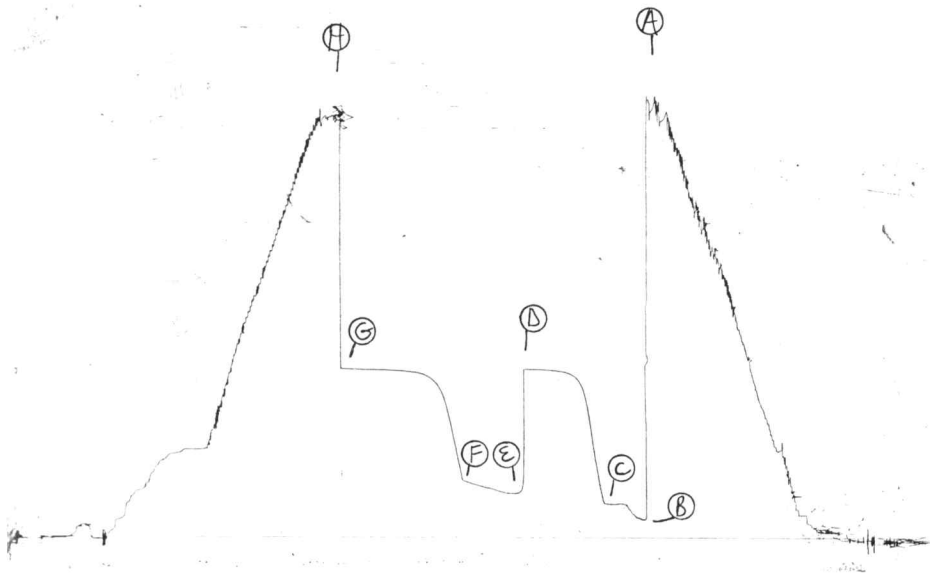
GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED: 5/30/83

TKT # 18963

1566

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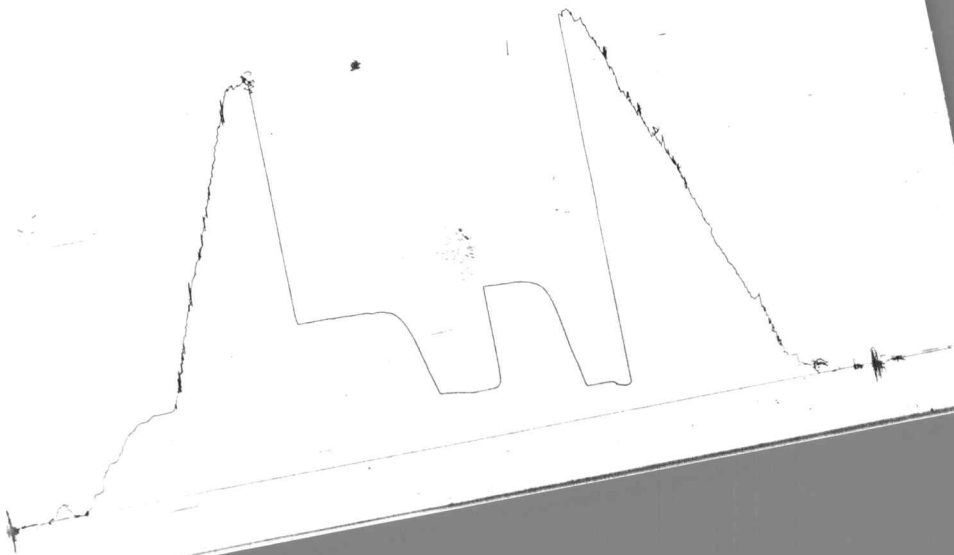
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TKT # 18963





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No. 18963

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 214 Formation Simpson Eff. Pay Ft.

District Pratt Date 5-30-83 Customer Order No.

COMPANY NAME TXO Production Corp.

ADDRESS 200 W. Douglas #300 Wichita, Ks. 67202

LEASE AND WELL NO. Lonker 9-1 COUNTY Barber STATE Ks. Sec. 15 Twp. 32 Rge. 12W

Mail Invoice To #1 "G" LONKER Co. Name TXO Production Corp. Address 2501 Indefatigable Ave No. Copies Requested 6

Mail Charts To Ref 329 Medium Log 67104 Address Dallas Texas 75201 No. Copies Requested 6

Formation Test No. 1 Interval Tested From 4730 ft. to 4777 ft. Total Depth 4777 ft.

Packer Depth 4725 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Packer Depth 4730 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4767' 45" ft. Recorder Number 1566 Cap. 4300

Bottom Recorder Depth (Outside) 4771' 45" ft. Recorder Number 3086 Cap. 4500

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor FWA Rig #32 Drill Collar Length 280' I. D. 2.2 in.

Mud Type chemical Viscosity 40 Weight Pipe Length 31' I. D. 2.2 in.

Weight 9.4 Water Loss 16.0 cc. Drill Pipe Length 4421' I. D. 3.2 in.

Chlorides 11,000 P.P.M. Test Tool Length 29' ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 422 Anchor Length 16' ft. Size 5 1/2 in.

Did Well Flow? no Reversed Out no Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4" in.

Blow: STRONG - 9-t-S 10min FFP See Flow Chart!

Recovered 90' ft. of gassy - slightly oil cut clay mud w/ 95 mud 50% oil

Recovered 760' ft. of 7 mud oil w/ 38 gravity @ 72%

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Lift (6) Sample Jars

Time On Location 12:30 A.M. Time Pick Up Tool 2:00 P.M. Time Off Location 2:00 A.M.

Time Set Packer(s) 4:30 P.M. Time Started Off Bottom 8:15 P.M. Maximum Temperature 125°

Initial Hydrostatic Pressure (A) 2319 P.S.I.

Initial Flow Period (B) 30 Minutes (C) 86 P.S.I. to (D) 194 P.S.I.

Initial Closed In Period (E) 60 Minutes (F) 93.7 P.S.I.

Final Flow Period (G) 45 Minutes (H) 248 P.S.I. to (I) 313 P.S.I.

Final Closed In Period (J) 90 Minutes (K) 93.7 P.S.I.

Final Hydrostatic Pressure (L) 2329 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Lonnie Backus
Signature of Customer or his authorized representative

Western Representative Mike Rogers Thank You!

FIELD INVOICE

Open Hole Test \$ 595.00
Misc. \$
Straddle Test \$
Jars \$ 4300.00
Selective Zone \$
Safety Joint \$ 65.00
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$ 960.00

N^o 4125

GAS FLOW REPORT

Date 5-30-83 Ticket 18963 Company Texas Oil & Gas
 Well Name and No. Lanier 9-1 Dst No. 1 Interval Tested 4730-4777
 County Hemp Barber State Ks. Sec. 15 Twp. 32 Rg. 12

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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PRE FLOW

					gas-to-surface 10 min into F.F.P.

SECOND FLOW

	Inches to Water				
12	30	1/4			9,200 CFD
15	15				6,550 "
20	24				8,220 "
25	26				8,560 "
30	22				7,880 "
35	22				7,880 "
40	20				7,510 "
45	20				7,510 "

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME _____

Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 5-30 Test Ticket No. 18963
 Recorder No. 1566 Capacity 4300 Location 4767 Ft.
 Clock No. Elevation Well Temperature 125 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>2364</u> P.S.I.	Open Tool	<u>4:30 P</u> M	
B First Initial Flow Pressure <u>106</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure <u>194</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure <u>944</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure <u>250</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure <u>321</u> P.S.I.			
G Final Closed-in Pressure <u>944</u> P.S.I.			
H Final Hydrostatic Mud <u>2329</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>21</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>31</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>106</u>	0	<u>194</u>	0	<u>250</u>	0	<u>321</u>
P 2 5	<u>116</u>	3	<u>268</u>	5	<u>250</u>	3	<u>465</u>
P 3 10	<u>138</u>	6	<u>398</u>	10	<u>251</u>	6	<u>571</u>
P 4 15	<u>189</u>	9	<u>528</u>	15	<u>258</u>	9	<u>671</u>
P 5 20	<u>192</u> ^{OK}	12	<u>675</u>	20	<u>270</u>	12	<u>760</u>
P 6 25	<u>191</u>	15	<u>794</u>	25	<u>282</u>	15	<u>821</u>
P 7 30	<u>194</u>	18	<u>860</u>	30	<u>291</u>	18	<u>862</u>
P 8 35		21	<u>893</u>	35	<u>302</u>	21	<u>882</u>
P 9 40		24	<u>911</u>	40	<u>313</u>	24	<u>899</u>
P10 45		27	<u>923</u>	45	<u>321</u>	27	<u>911</u>
P11 50		30	<u>929</u>	50		30	<u>918</u>
P12 55		33	<u>932</u>	55		33	<u>925</u>
P13 60		36	<u>935</u>	60		36	<u>927</u>
P14		39	<u>937</u>	65		39	<u>929</u>
P15		42	<u>939</u>	70		42	<u>931</u>
P16		45	<u>941</u>	75		45	<u>932</u>
P17		48	<u>942</u>	80		48	<u>933</u>
P18		51	<u>943</u>	85		51	<u>934</u>
P19		54	<u>944</u>	90		54	<u>935</u>
P20		57	<u>944</u>			57	<u>936</u>
		60	<u>944</u>			60	<u>937</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 18963

Recorder No. _____ Capacity _____ Location _____

Clock No. _____ Elevation _____ Well Temperature _____

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I.	_____ M		
B First Initial Flow Pressure _____	P.S.I.	First Flow Pressure _____	Mins.	Min
C First Final Flow Pressure _____	P.S.I.	Initial Closed-in Pressure _____	Mins.	Min
D Initial Closed-in Pressure _____	P.S.I.	Second Flow Pressure _____	Mins.	Min
E Second Initial Flow Pressure _____	P.S.I.	Final Closed-in Pressure _____	Mins.	Min
F Second Final Flow Pressure _____	P.S.I.			
G Final Closed-in Pressure _____	P.S.I.			
H Final Hydrostatic Mud _____	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 _____	_____	63 _____	_____	_____	_____	63 _____	938
P 2 _____	_____	66 _____	_____	_____	_____	66 _____	939
P 3 _____	_____	69 _____	_____	_____	_____	69 _____	940
P 4 _____	_____	72 _____	_____	_____	_____	72 _____	941
P 5 _____	_____	75 _____	_____	_____	_____	75 _____	942
P 6 _____	_____	78 _____	_____	_____	_____	78 _____	943
P 7 _____	_____	81 _____	_____	_____	_____	81 _____	944
P 8 _____	_____	84 _____	_____	_____	_____	84 _____	5
P 9 _____	_____	87 _____	_____	_____	_____	87 _____	944
P10 _____	_____	90 _____	_____	_____	_____	90 _____	_____
P11 _____	_____	93 _____	_____	_____	_____	93 _____	_____
P12 _____	_____	96 _____	_____	_____	_____	96 _____	_____
P13 _____	_____	99 _____	_____	_____	_____	99 _____	_____
P14 _____	_____	102 _____	_____	_____	_____	102 _____	_____
P15 _____	_____	105 _____	_____	_____	_____	105 _____	_____
P16 _____	_____	108 _____	_____	_____	_____	108 _____	_____
P17 _____	_____	111 _____	_____	_____	_____	111 _____	_____
P18 _____	_____	114 _____	_____	_____	_____	114 _____	_____
P19 _____	_____	117 _____	_____	_____	_____	117 _____	_____
P20 _____	_____	120 _____	_____	_____	_____	120 _____	_____