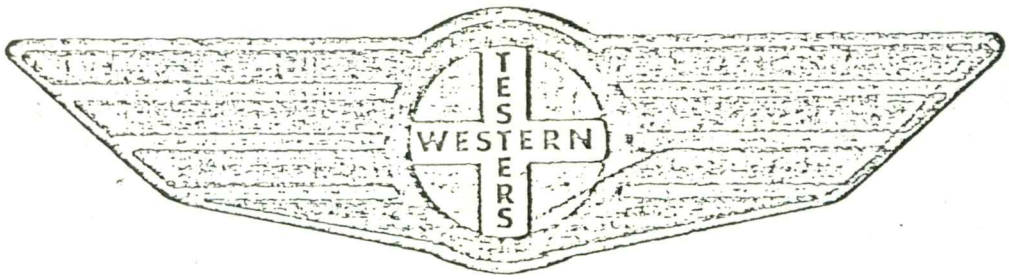
FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

pany_____ Lease and Well No._____ Sec.____ Twp.____ Rge.____ Test No.____ Date____

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8/12/84 TICKET #4698
CUSTOMER: PICKRELL DRILLING COMPANY LEASE: COYKENDALL
WELL: 6 TEST: 1 GEOLOGIST: STRONG
ELEVATION (KB): 1471 FORMATION: KANSAS CITY
SECTION: 36 TOWNSHIP: 29S
RANGE: 7W COUNTY: KINGMAN STATE: KANSAS
GAUGE SN #13547 RANGE: 4225 CLOCK: 12

INTERVAL TEST FROM: 3723 FT TO: 3750 FT TOTAL DEPTH: 3750 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3718 FT SIZE: 6 5/8 IN PACKER DEPTH: 3723 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL DRLG
MUD TYPE: LOW SOLIDS VISCOSITY: 44
WEIGHT: 9.3 WATER LOSS (CC): 14.2
CHLORIDES (P.P.M.): 12000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3522 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 27 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 1/2 FH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW.
DIED IN 20 MINUTES.
FINAL FLOW PERIOD NO BLOW.
FLUSHED TOOL.

RECOVERED: 250 FT OF: MUDDY WATER. CHLORIDES 73000 PPM.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 8:15 PM TIME STARTED OFF BOTTOM: 10:15 PM
WELL TEMPERATURE: 117 'F
INITIAL HYDROSTATIC PRESSURE: (A) 1787 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 74 PSI TO (C) 85 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 1054 PSI
FINAL FLOW PERIOD MIN: 30 (E) 147 PSI TO (F) 162 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 1046 PSI
FINAL HYDROSTATIC PRESSURE (H) 1756 PSI

WESTERN TESTING CO. INC.

PRESSURE DATA

DATE: 8/12/84 TICKET #4698

CUSTOMER: PICKRELL DRILLING COMPANY LEASE: COYKENDALL

WELL: 6 TEST: 1 GEOLOGIST: STRONG

ELEVATION (KB): 1471 FORMATION: KANSAS CITY

SECTION: 36 TOWNSHIP: 29S

RANGE: 7W COUNTY: KINGMAN STATE: KANSAS

GAUGE SN #13547 RANGE: 4225 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	1787	PSI
(B) FIRST INITIAL FLOW PRESSURE:	74	PSI
(C) FIRST FINAL FLOW PRESSURE:	85	PSI
(D) INITIAL CLOSED-IN PRESSURE:	1054	PSI
(E) SECOND INITIAL FLOW PRESSURE:	147	PSI
(F) SECOND FINAL FLOW PRESSURE:	162	PSI
(G) FINAL CLOSED-IN PRESSURE:	1046	PSI
(H) FINAL HYDROSTATIC PRESSURE:	1756	PSI
WELL TEMPERATURE:	117	'F

OPEN TOOL: 8:15 PM

	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	30	MIN	30	MIN
INITIAL CLOSED-IN PRESSURE:	30	MIN	30	MIN
SECOND FLOW PRESSURE:	30	MIN	30	MIN
FINAL CLOSED-IN PRESSURE:	30	MIN	30	MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	74	0	85	0	147	0	162
2	5	74	3	786	5	147	3	837
3	10	74	6	928	10	188	6	936
4	15	74	9	977	15	173	9	977
5	20	74	12	1003	20	166	12	999
6	25	78	15	1019	25	164	15	1015
7	30	85	18	1032	30	162	18	1024
8			21	1040			21	1033
9			24	1046			24	1039
10			27	1050			27	1044
11			30	1054			30	1046
12								
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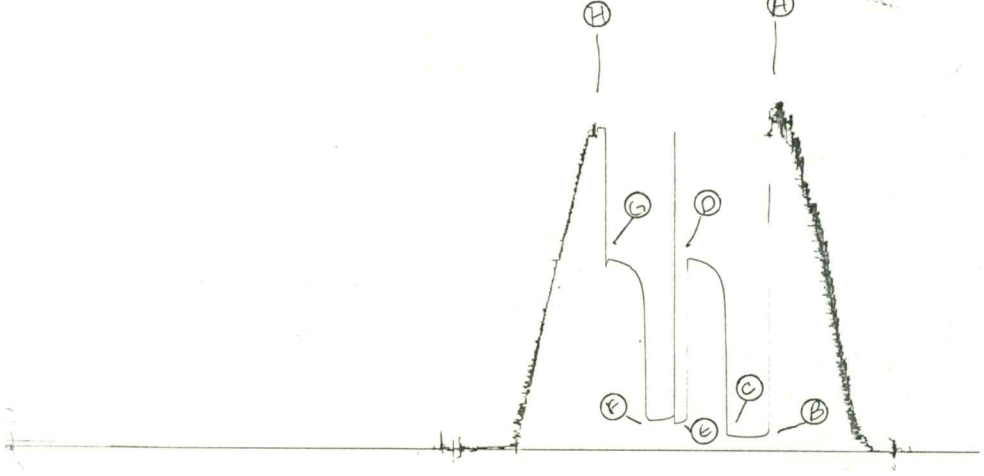

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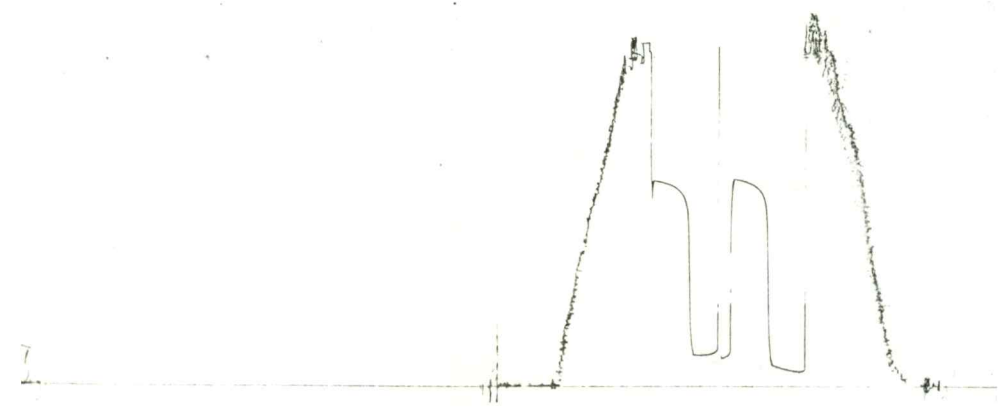
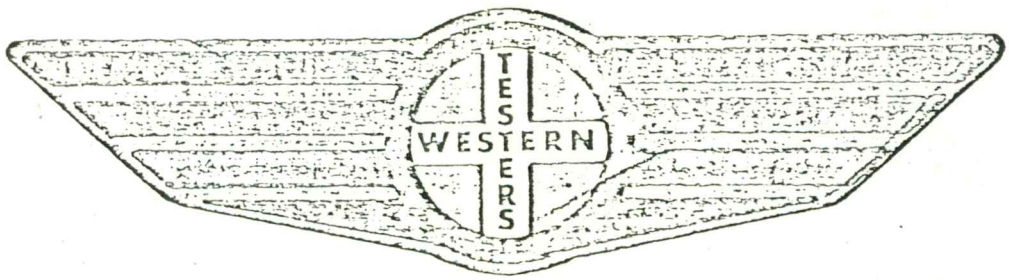


FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

npany PICKRELL DRILLING COMPANY Lease and Well No. Sec. Twp. Rge. Test No. Date

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8/14/84 TICKET #4699
CUSTOMER: PICKRELL DRILLING COMPANY LEASE: COYKENDALL
WELL: 6 TEST: 2 GEOLOGIST: STRONG
ELEVATION (KB): 1471 FORMATION: MISSISSIPPI
SECTION: 36 TOWNSHIP: 29S
RANGE: 7W COUNTY: KINGMAN STATE: KANSAS
GAUGE SN #13547 RANGE: 4225 CLOCK: 12

INTERVAL TEST FROM: 4077 FT TO: 4092 FT TOTAL DEPTH: 4092 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4072 FT SIZE: 6 5/8 IN PACKER DEPTH: 4077 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL DRLG
MUD TYPE: LOW SOLIDS VISCOSITY: 42
WEIGHT: 9.3 WATER LOSS (CC): 15.1
CHLORIDES (P.P.M.): 16000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? YES REVERSED OUT? NO
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3876 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 15 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 1/2 FH IN

BLOW: STRONG BLOW THROUGHOUT TEST.
GAS TO SURFACE IN 7 MINUTES
ON THE INITIAL FLOW PERIOD.

RECOVERED: 160 FT OF: OIL & GAS CUT MUD. 30% OIL.
RECOVERED: 120 FT OF: HEAVY OIL & GAS CUT MUD. 40% OIL; 12% WATER.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: SEE ATTACHED SHEET FOR GAS
MEASUREMENTS.

TIME SET PACKER(S): 4:10 AM TIME STARTED OFF BOTTOM: 8:40 AM
WELL TEMPERATURE: 120 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 2023	PSI
INITIAL FLOW PERIOD	MIN: 30	(B) 83	PSI TO (C) 83 PSI
INITIAL CLOSED IN PERIOD	MIN: 60	(D) 774	PSI
FINAL FLOW PERIOD	MIN: 85	(E) 95	PSI TO (F) 95 PSI
FINAL CLOSED IN PERIOD	MIN: 90	(G) 754	PSI
FINAL HYDROSTATIC PRESSURE		(H) 1996	PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 8/14/84 TICKET #4699
CUSTOMER: PICKRELL DRILLING COMPANY LEASE: COYKENDALL
WELL: 6 TEST: 2 GEOLOGIST: STRONG
ELEVATION (KB): 1471 FORMATION: MISSISSIPPI
SECTION: 36 TOWNSHIP: 29S
RANGE: 7W COUNTY: KINGMAN STATE: KANSAS
GAUGE SN #13547 RANGE: 4225 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	2023	PSI
(B) FIRST INITIAL FLOW PRESSURE:	83	PSI
(C) FIRST FINAL FLOW PRESSURE:	83	PSI
(D) INITIAL CLOSED-IN PRESSURE:	774	PSI
(E) SECOND INITIAL FLOW PRESSURE:	95	PSI
(F) SECOND FINAL FLOW PRESSURE:	95	PSI
(G) FINAL CLOSED-IN PRESSURE:	754	PSI
(H) FINAL HYDROSTATIC PRESSURE:	1996	PSI
WELL TEMPERATURE:	120	'F

OPEN TOOL: 4:10 AM

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	60 MIN
SECOND FLOW PRESSURE:	90 MIN	85 MIN
FINAL CLOSED-IN PRESSURE:	90 MIN	90 MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	83	0	83	0	95	0	95
2	5	83	3	621	5	95	3	565
3	10	83	6	687	10	95	6	634
4	15	83	9	716	15	95	9	664
5	20	83	12	731	20	95	12	679
6	25	83	15	739	25	95	15	693
7	30	83	18	744	30	95	18	705
8			21	749	35	95	21	712
9			24	753	40	95	24	717
10			27	757	45	95	27	722
11			30	761	50	95	30	727
12			33	763	55	95	33	729
13			36	765	60	95	36	731
14			39	767	65	95	39	733
15			42	769	70	95	42	735
16			45	770	75	95	45	737
17			48	771	80	95	48	739
18			51	772	85	95	51	741
19			54	773			54	743
20			57	774			57	745
21			60	774			60	746
22							63	747
23							66	748
24							69	749
25							72	750
26							75	751
27							78	752
28							81	752
29							84	753
30							87	753

PRESSURE BREAKDOWN - CONT. TICKET #4699

PT	FIRST FLOW MIN	FIRST FLOW PRESSURE	INITIAL SHUT-IN MIN	INITIAL SHUT-IN PRESSURE	SECOND FLOW MIN	SECOND FLOW PRESSURE	FINAL SHUT-IN MIN	FINAL SHUT-IN PRESSURE
31							90	754
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GAS FLOW REPORT

Date 8-14-84 Ticket 4699 Company Pickrell Drilling Company

Well Name and No. Coykendall #6 Dst No. 2 Interval Tested 4077' - 4092'

County Kingman State Kansas Sec. 36 Twp. 29S Rg. 7W

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
			PRE FLOW			
10	26" of Water	1"	orifice			132,000 C.F.P.D.
20	34" of Water	1"	orifice			151,000 C.F.P.D.
30	38" of Water	1"	orifice			159,000 C.F.P.D.
			SECOND FLOW			
5	17" of Water	1/2"	orifice			287,000 C.F.P.D.
10	16" of Water	1/2"	orifice			278,000 C.F.P.D.
20	13" of Water	1/2"	orifice			251,000 C.F.P.D.
30	13" of Water	1/2"	orifice			251,000 C.F.P.D.
40	13" of Water	1/2"	orifice			251,000 C.F.P.D.
50	13" of Water	1/2"	orifice			251,000 C.F.P.D.
60	13" of Water	1/2"	orifice			251,000 C.F.P.D.
70	13" of Water	1/2"	orifice			251,000 C.F.P.D.
80	13" of Water	1/2"	orifice			251,000 C.F.P.D.
90	13" of Water	1/2"	orifice			251,000 C.F.P.D.

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 1½% 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 Pickrell Drilling Company

Authorized by Don D. Strong

FORM WTC 6

+CK# 4699

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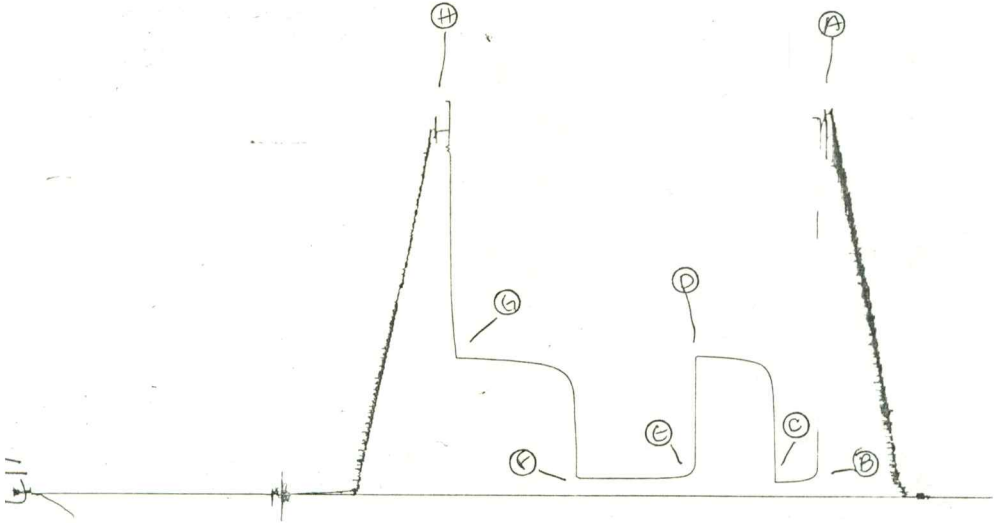

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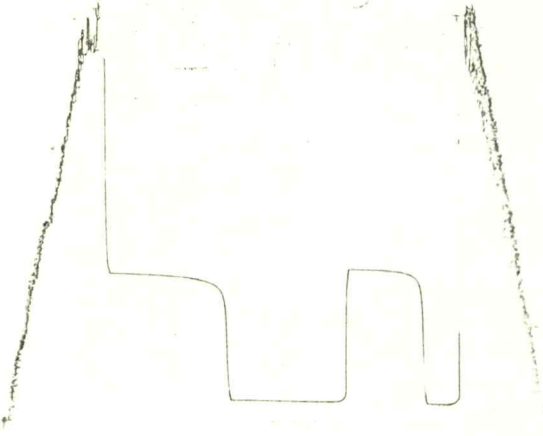

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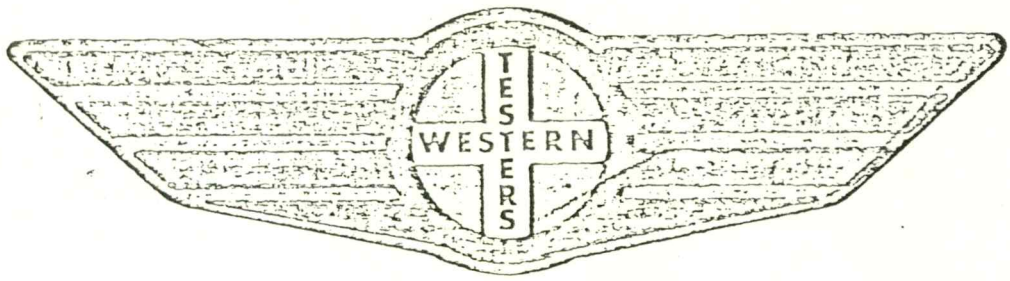
FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

Company PICKRELL DRILLING COMPANY Lease and Well No. MC CORKENDALL Sec. 36 Twp. 29S Rge. [illegible] Test No. Date

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8/14/84 TICKET #4700
CUSTOMER: PICKRELL DRILLING COMPANY LEASE: COYKENDALL
WELL: 6 TEST: 3 GEOLOGIST: STRONG
ELEVATION (KB): 1471 FORMATION: MISSISSIPPI
SECTION: 36 TOWNSHIP: 29S
RANGE: 7W COUNTY: KINGMAN STATE: KANSAS
GAUGE SN #13547 RANGE: 4225 CLOCK: 12

INTERVAL TEST FROM: 4092 FT TO: 4112 FT TOTAL DEPTH: 4112 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4087 FT SIZE: 6 5/8 IN PACKER DEPTH: 4092 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL DRLG
MUD TYPE: LOW SOLIDS VISCOSITY: 42
WEIGHT: 9.3 WATER LOSS (CC): 15.1
CHLORIDES (P.P.M.): 16000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? YES REVERSED OUT? NO
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3891 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 20 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 1/2 FH IN

BLOW: STRONG BLOW THROUGHOUT TEST.
GAS TO SURFACE IN 17 MINUTES
ON THE INITIAL FLOW PERIOD.

RECOVERED: 110 FT OF: OIL & GAS CUT MUD. 20% OIL.
RECOVERED: 120 FT OF: HEAVY OIL & GAS CUT MUD. 40% OIL.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: SEE ATTACHED SHEET FOR GAS
MEASUREMENTS.

TIME SET PACKER(S): 7:50 PM TIME STARTED OFF BOTTOM: 12:20 AM
WELL TEMPERATURE: 120 'F
INITIAL HYDROSTATIC PRESSURE: (A) 2011 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 71 PSI TO (C) 71 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 753 PSI
FINAL FLOW PERIOD MIN: 85 (E) 73 PSI TO (F) 73 PSI
FINAL CLOSED IN PERIOD MIN: 90 (G) 718 PSI
FINAL HYDROSTATIC PRESSURE (H) 2001 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 8/14/84 TICKET #4700
CUSTOMER: PICKRELL DRILLING COMPANY LEASE: COYKENDALL
WELL: 6 TEST: 3 GEOLOGIST: STRONG
ELEVATION (KB): 1471 FORMATION: MISSISSIPPI
SECTION: 36 TOWNSHIP: 29S
RANGE: 7W COUNTY: KINGMAN STATE: KANSAS
GAUGE SN #13547 RANGE: 4225 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	2011	PSI
(B) FIRST INITIAL FLOW PRESSURE:	71	PSI
(C) FIRST FINAL FLOW PRESSURE:	71	PSI
(D) INITIAL CLOSED-IN PRESSURE:	753	PSI
(E) SECOND INITIAL FLOW PRESSURE:	73	PSI
(F) SECOND FINAL FLOW PRESSURE:	73	PSI
(G) FINAL CLOSED-IN PRESSURE:	718	PSI
(H) FINAL HYDROSTATIC PRESSURE:	2001	PSI
WELL TEMPERATURE:	120	'F

OPEN TOOL: 7:50 PM

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	60 MIN
SECOND FLOW PRESSURE:	90 MIN	85 MIN
FINAL CLOSED-IN PRESSURE:	90 MIN	90 MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	71	0	71	0	73	0	73
2	5	71	3	334	5	73	3	271
3	10	71	6	495	10	73	6	396
4	15	71	9	577	15	73	9	469
5	20	71	12	627	20	73	12	518
6	25	71	15	660	25	73	15	556
7	30	71	18	677	30	73	18	585
8			21	694	35	73	21	608
9			24	707	40	73	24	622
10			27	716	45	73	27	634
11			30	724	50	73	30	644
12			33	729	55	73	33	652
13			36	433	60	73	36	660
14			39	737	65	73	39	667
15			42	741	70	73	42	673
16			45	745	75	73	45	677
17			48	747	80	73	48	681
18			51	749	85	73	51	685
19			54	751			54	689
20			57	752			57	693
21			60	753			60	696
22							63	699
23							66	702
24							69	705
25							72	707
26							75	709
27							78	711
28							81	713
29							84	715
30							87	717

PRESSURE BREAKDOWN - CONT. TICKET #4700

PT	FIRST FLOW MIN	FIRST FLOW PRESSURE	INITIAL SHUT-IN MIN	INITIAL SHUT-IN PRESSURE	SECOND FLOW MIN	SECOND FLOW PRESSURE	FINAL SHUT-IN MIN	FINAL SHUT-IN PRESSURE
31							90	718

WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 8/14/84 TICKET #4700
CUSTOMER: PICKRELL DRILLING COMPANY LEASE: COYKENDALL
WELL: 6 TEST: 3 GEOLOGIST: STRONG
ELEVATION (KB): 1471 FORMATION: MISSISSIPPI
SECTION: 36 TOWNSHIP: 29S
RANGE: 7W COUNTY: KINGMAN STATE: KANSAS
GAUGE SN #13547 RANGE: 4225 CLOCK: 12

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
			PRE FLOW	
20	MERLA	3/4	8" WTR	40000 CFPD
30			8	40000
			SECOND FLOW	
5	MERLA	1/2	38" WTR	38600 CFPD
10			26	31900
20			13	22800
30			12	21900
40			11	20900
50			11	20900
60			10	19900
70			10	19900
80			9	18800
90			9	18800

GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED:

TCK# 4700

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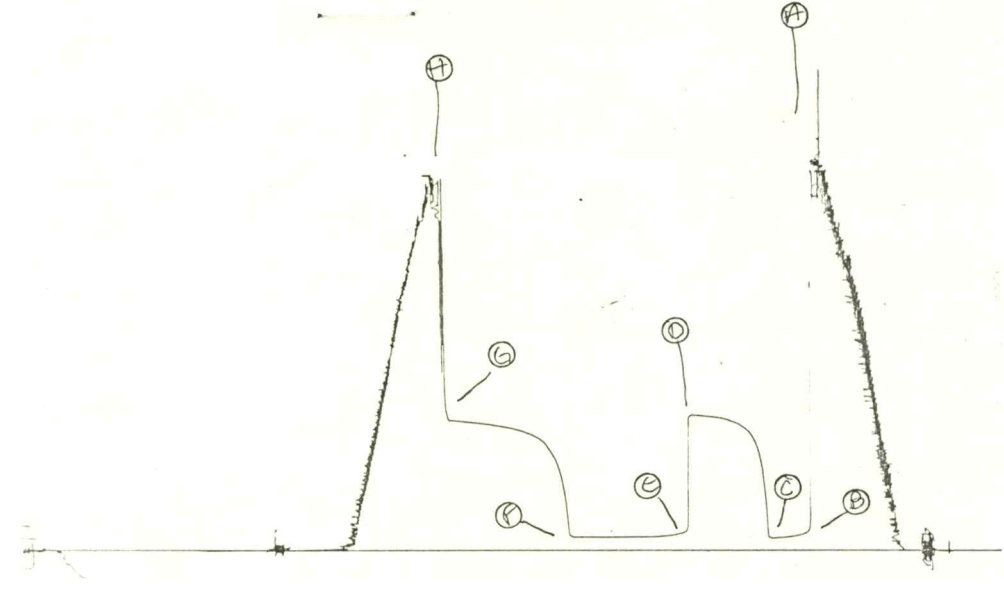

TCC# 4700

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