WESTERN, TESTING CO., INC.
FORMATION TESTING

TICKET No. 2087

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

Elevation 1323 G.L. Formation Lansing, KC. Eff. Pay — Ft.

District CT, Bend Date 8-14-83 Customer Order No. —

COMPANY NAME APC & Robinson Oil Co.

ADDRESS Suite 600 One Main Pl. Wichita, Ks. 67202

LEASE AND WELL NO. Hallman #1 COUNTY Harper STATE Ks. Sec. 18 Twp. 32S Rge. 5W

Mail Invoice To Co. Name Hallman Address Same No. Copies Requested 5

Mail Charts To Hallman Address Same No. Copies Requested 5

Formation Test No. 1 Interval Tested From 3646 ft. to 3660 ft. Total Depth 3660 ft.

Packer Depth 3641 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 3646 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3638 ft. Recorder Number 1560 Cap. 4500

Bottom Recorder Depth (Outside) 3651 ft. Recorder Number 3085 Cap. 4500

Below Straddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor Heartland drlg rig # Drill Collar Length 460 I. D. 2.2 in.

Mud Type Chemical Viscosity 47 Weight Pipe Length — I. D. — in.

Weight 9.1 Water Loss 17.2 cc. Drill Pipe Length 3162 I. D. 3.8 in.

Chlorides 10,000 P.P.M. Test Tool Length 24 ft. Tool Size 5 1/2 in.

Jars: Make — Serial Number — Anchor Length 14 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 1/2 XH in.

Blow: IF - Weak Blow building To Good Blow 1" To 7" Blow
FF - Good Blow Throughout

Recovered 180 ft. of GAS in PIPE

Recovered 45 ft. of Oil & gas cut mud 15% oil 5% water 45% mud 35% gas

Recovered 435 ft. of SALT WATER

Recovered — ft. of Top 60' of water w/show of oil

Recovered — ft. of

Chlorides 119,000 P.P.M. Sample Jars used 3 Remarks:

RECEIVED
AUG 1 1983

Time On Location	9:20 A.M. P.M.	Time Pick Up Tool	9:40 A.M. P.M.	Time Off Location	6:25 A.M. P.M.
Time Set Packer(s)	11:30 A.M. P.M.	Time Started Off Bottom	3:30 A.M. P.M.	Maximum Temperature	118°

Initial Hydrostatic Pressure		(A)	1860 P.S.I.		
Initial Flow Period	Minutes 30	(B)	39 P.S.I.	to (C)	127 P.S.I.
Initial Closed In Period	Minutes 60	(D)	1466 P.S.I.		
Final Flow Period	Minutes 60	(E)	173 P.S.I.	to (F)	266 P.S.I.
Final Closed In Period	Minutes 90	(G)	1443 P.S.I.		
Final Hydrostatic Pressure		(H)	1849 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 Phil Hargis
Signature of Customer or his authorized representative

Western Representative Ray Schwager Thank you

FIELD INVOICE

Open Hole Test	$ 550.00
Misrun	$ —
Straddle Test	$ —
Jars	$ —
Selective Zone	$ — 00
Safety Joint	$ 65.00
Standby	$ —
Evaluation	$ —
Extra Packer	$ —
Circ. Sub.	$ —
Mileage	$ —
Fluid Sampler	$ —
Extra Charts	$ —
Insurance	$ —
Telecopier	$ —
TOTAL	$ 615.00

WESTERN TESTING CO., INC.

Pressure Data

Date 8-14 Test Ticket No. 2087

Recorder No. 1560 Capacity 4500 Location 3648 Ft.

Clock No. — — — — Elevation 1323 GL Well Temperature 118 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1840	P.S.I.	Open Tool	11:30 AM	
B	First Initial Flow Pressure	51	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	139	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1481	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	181	P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F	Second Final Flow Pressure	278	P.S.I.			
G	Final Closed-in Pressure	1465	P.S.I.			
H	Final Hydrostatic Mud	1828	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	51
P 2	5	62
P 3	10	76
P 4	15	95
P 5	20	111
P 6	25	126
P 7	30	139
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	139
3	525
6	1088
9	1222
12	1281
15	1320
18	1346
21	1369
24	1387
27	1403
30	1414
33	1426
36	1436
39	1444
42	1450
45	1456
48	1462
51	1468
54	1474
57	1479
60	1481

Second Flow Pressure
Breakdown: 13 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	181
5	181
10	192
15	204
20	217
25	229
30	238
35	250
40	259
45	266
50	271
55	277
60	278
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 31 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	278
3	703
6	1101
9	1195
12	1246
15	1277
18	1301
21	1320
24	1339
27	1353
30	1366
33	1376
36	1386
39	1394
42	1402
45	1409
48	1415
51	1421
54	1426
57	1431
60	1436

comit

WESTERN TESTING CO., INC.
Pressure Data

Date_____ Test Ticket No. 2087

Recorder No._____ Capacity_____ Location_____ Ft.

Clock No._____ Elevation_____ Well Temperature_____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Mins.
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		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown:_____ Inc.		Breakdown:_____ Inc.		Breakdown:_____ Inc.		Breakdown:_____ Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1		63				63	1440
P 2		66				66	1444
P 3		69				69	1447
P 4		72				72	1450
P 5		75				75	1453
P 6		78				78	1456
P 7		81				81	1459
P 8		84				84	1461
P 9		87				87	1463
P10		90				90	1465
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	

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8/14/83 TICKET #2087
CUSTOMER: APC INC & ROBINSON OIL LEASE: HALLMAN
WELL: 1 TEST: 1 GEOLOGIST: HARGIS
ELEVATION (KB): 1328 FORMATION: LANSING-KANS CITY
SECTION: 18 TOWNSHIP: 32S
RANGE: 5W COUNTY: HARPER STATE: KANSAS
GAUGE SN #1560 RANGE: 4500 CLOCK: 12

INTERVAL TEST FROM: 3646 FT TO: 3660 FT TOTAL DEPTH: 3660 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3641 FT SIZE: 6 5/8 IN PACKER DEPTH: 3646 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: HEARTLAND
MUD TYPE: CHEMICAL VISCOSITY: 47
WEIGHT: 9.1 WATER LOSS (CC): 17.2
CHLORIDES (P.P.M.): 10000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO

DRILL COLLAR LENGTH:	460 FT	I.D.:	2.2	IN	
WEIGHT PIPE LENGTH:	FT	I.D.:		IN	
DRILL PIPE LENGTH:	3162 FT	I.D.:	3.8	IN	
TEST TOOL LENGTH:	24 FT	TOOL SIZE:	5 1/2	IN	
ANCHOR LENGTH:	14 FT	SIZE:	5 1/2	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 XH	IN	

BLOW: INITIAL FLOW PERIOD WEAK BLOW BUILDING
TO GOOD BLOW - 1 INCH TO 7 INCH BLOW.
FINAL FLOW PERIOD GOOD BLOW THROUGHOUT.

RECOVERED:	180 FT	OF:	GAS IN PIPE
RECOVERED:	45 FT	OF:	OIL & GAS CUT MUD
RECOVERED:	FT	OF:	15% OIL; 5% WATER; 45% MUD; 35% GAS
RECOVERED:	435 FT	OF:	SALTWATER
RECOVERED:	FT	OF:	TOP 60 FT. OF WATER W/SHOW OF OIL
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	

REMARKS: CHLORIDES 119000 PPM

TIME SET PACKER(S): 11:30 AM TIME STARTED OFF BOTTOM: 3:30 PM
WELL TEMPERATURE: 118 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 1840	PSI	
INITIAL FLOW PERIOD	MIN: 30	(B) 51	PSI TO (C) 139	PSI
INITIAL CLOSED IN PERIOD	MIN: 60	(D) 1481	PSI	
FINAL FLOW PERIOD	MIN: 60	(E) 181	PSI TO (F) 278	PSI
FINAL CLOSED IN PERIOD	MIN: 90	(G) 1465	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 1828	PSI	

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 8/14/83 TICKET #2087
CUSTOMER: APC INC & ROBINSON OIL LEASE: HALLMAN
WELL: 1 TEST: 1 GEOLOGIST: HARGIS
ELEVATION (KB): 1328 FORMATION: LANSING-KANS CITY
SECTION: 18 TOWNSHIP: 32S
RANGE: 5W COUNTY: HARPER STATE: KANSAS
GAUGE SN #1560 RANGE: 4500 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	1840	PSI
(B) FIRST INITIAL FLOW PRESSURE:	51	PSI
(C) FIRST FINAL FLOW PRESSURE:	139	PSI
(D) INITIAL CLOSED-IN PRESSURE:	1481	PSI
(E) SECOND INITIAL FLOW PRESSURE:	181	PSI
(F) SECOND FINAL FLOW PRESSURE:	278	PSI
(G) FINAL CLOSED-IN PRESSURE:	1465	PSI
(H) FINAL HYDROSTATIC PRESSURE:	1828	PSI
WELL TEMPERATURE:	118	'F

OPEN TOOL: 11:30 AM

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	60 MIN
SECOND FLOW PRESSURE:	60 MIN	60 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	51	0	139	0	181	0	278
2	5	62	3	525	5	181	3	703
3	10	76	6	1088	10	192	6	1101
4	15	95	9	1222	15	204	9	1195
5	20	111	12	1281	20	217	12	1246
6	25	126	15	1320	25	229	15	1277
7	30	139	18	1346	30	238	18	1301
8			21	1369	35	250	21	1320
9			24	1387	40	259	24	1339
10			27	1403	45	266	27	1353
11			30	1414	50	271	30	1366
12			33	1426	55	277	33	1376
13			36	1436	60	278	36	1386
14			39	1444			39	1394
15			42	1450			42	1402
16			45	1456			45	1409
17			48	1462			48	1415
18			51	1468			51	1421
19			54	1474			54	1426
20			57	1479			57	1431
21			60	1481			60	1436
22							63	1440
23							66	1444
24							69	1447
25							72	1450
26							75	1453
27							78	1456
28							81	1459
29							84	1461
30							87	1463

PRESSURE BREAKDOWN - CONT. TICKET #2087

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	1465
32								
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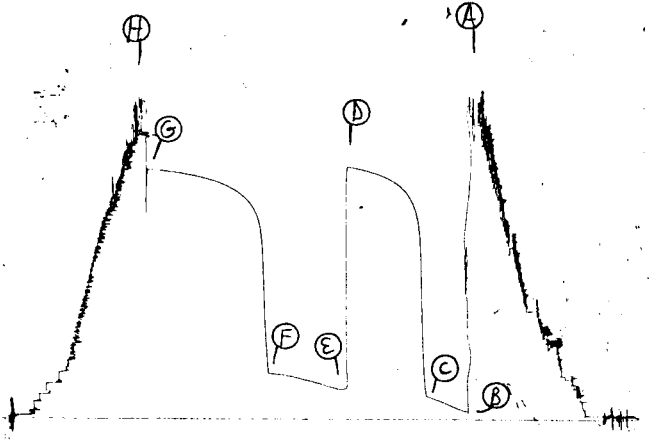

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 2088

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

Elevation 1323 GL Formation Lansing KC. Eff. Pay — Ft.

District GT. Bend Date 8-15-83 Customer Order No. —

COMPANY NAME APC & Robinson Oil Co.

ADDRESS Suite 600 One Main Pl. Wichita, Ks. 67202

LEASE AND WELL NO. Hallman #1 COUNTY Harper STATE Ks. Sec. 18 Twp. 32S Rge. 5W

Mail Invoice To Same No. Copies Requested 5

Mail Charts To Co. Name #1 Hallman Address Same No. Copies Requested 5

Formation Test No. 2 Interval Tested From 3772 ft. to 3800 ft. Total Depth 3800 ft.

Packer Depth 3767 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 3772 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3782 ft. Recorder Number 1560 Cap. 4500

Bottom Recorder Depth (Outside) 3789 ft. Recorder Number 3085 Cap. 4500

Below Straddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor Heartland dclg rig 1

Mud Type Chemical Viscosity 39

Weight 9.1 Water Loss 17.2 cc.

Chlorides 8,000 P.P.M.

Jars: Make — Serial Number —

Did Well Flow? NO Reversed Out NO

Drill Collar Length 460 I. D. 2.2 in.

Weight Pipe Length — I. D. — in.

Drill Pipe Length 3288 I. D. 3.8 in.

Test Tool Length 24 ft. Tool Size 5½ in.

Anchor Length 28 ft. Size 5½ in.

Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½ XH in.

Blow: IF - Very Weak Blow died in 20 min

FF - No Blow Flushed Tool

Recovered 10 ft. of Mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides — P.P.M. Sample Jars used — Remarks:

RECEIVED AUG 17 1983

Time On Location 7:00 A.M. P.M. Time Pick Up Tool 8:20 A.M. P.M. Time Off Location 2:35 A.M. P.M.

Time Set Packer(s) 10:15 A.M. P.M. Time Started Off Bottom 12:15 A.M. P.M. Maximum Temperature 115°

Initial Hydrostatic Pressure			(A)	1989	P.S.I.	
Initial Flow Period	Minutes	30	(B)	46	P.S.I. to (C)	46 P.S.I.
Initial Closed In Period	Minutes	30	(D)	57	P.S.I.	
Final Flow Period	Minutes	30	(E)	57	P.S.I. to (F)	57 P.S.I.
Final Closed In Period	Minutes	30	(G)	69	P.S.I.	
Final Hydrostatic Pressure			(H)	2006	P.S.I.	

COMPANY TERMS

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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 Paul Haught
Signature of Customer or his authorized representative

Western Representative Ray Schwagel Thank you

FIELD INVOICE

Open Hole Test	$ 550.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$ 65.00
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$
Telecopier	$
	$ 615.00

WESTERN TESTING CO., INC.

Pressure Data

Date 8-15-83 Test Ticket No. 2088

Recorder No. 1560 Capacity 4500 Location 3786 Ft.

Clock No. — — — — Elevation 1323 G.L. Well Temperature 115 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1849	P.S.I.	Open Tool	10:15A M	
B	First Initial Flow Pressure	55	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	55	P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	71	P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	55	P.S.I.	Final Closed-in Pressure	30 Mins.	33 Mins.
F	Second Final Flow Pressure	69	P.S.I.			
G	Final Closed-in Pressure	83	P.S.I.			
H	Final Hydrostatic Mud	1849	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 7 Inc.		Breakdown: 11 Inc.		Breakdown: 7 Inc.		Breakdown: 12 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	55	0	55	0	55	0	67
P 2 5		3	56	5	55	3	68 68
P 3 10		6	57	10	55 F.T.	6	69
P 4 15		9	58	15	74	9	70
P 5 20		12	60	20	71	12	72
P 6 25		15	62	25	69	15	74
P 7 30	55	18	64	30	67	18	76
P 8 35		21	66	35		21	78
P 9 40		24	68	40		24	80
P10 45		27	70	45		27	81
P11 50		30	71	50		30	82
P12 55		33		55		33	83 83
P13 60		36		60		36	
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

WTC - 4

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8/15/83 TICKET #2088
CUSTOMER: APC INC. & ROBINSON OIL LEASE: HALLMAN
WELL: 1 TEST: 2 GEOLOGIST: HARGIS
ELEVATION (KB): 1328 FORMATION: LANSING-KANS CITY
SECTION: 18 TOWNSHIP: 32S
RANGE: 5W COUNTY: HARPER STATE: KANSAS
GAUGE SN #1560 RANGE: 4500 CLOCK: 12

INTERVAL TEST FROM: 3772 FT TO: 3800 FT TOTAL DEPTH: 3800 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3767 FT SIZE: 6 5/8 IN PACKER DEPTH: 3772 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: HEARTLAND
MUD TYPE: CHEMICAL VISCOSITY: 39
WEIGHT: 9.1 WATER LOSS (CC): 17.2
CHLORIDES (P.P.M.): 8000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 460 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3288 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 24 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 28 FT SIZE: 5 1/2 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 XH IN

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

RECOVERED: 10 FT OF: MUD
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): 10:15 AM TIME STARTED OFF BOTTOM: 12:15 PM
WELL TEMPERATURE: 115 'F
INITIAL HYDROSTATIC PRESSURE: (A) 1849 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 55 PSI TO (C) 55 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 71 PSI
FINAL FLOW PERIOD MIN: 30 (E) 55 PSI TO (F) 67 PSI
FINAL CLOSED IN PERIOD MIN: 33 (G) 83 PSI
FINAL HYDROSTATIC PRESSURE (H) 1849 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 8/15/83 TICKET #2088
CUSTOMER: APC INC. & ROBINSON OIL LEASE: HALLMAN
WELL: 1 TEST: 2 GEOLOGIST: HARGIS
ELEVATION (KB): 1328 FORMATION: LANSING-KANS CITY
SECTION: 18 TOWNSHIP: 32S
RANGE: 5W COUNTY: HARPER STATE: KANSAS
GAUGE SN #1560 RANGE: 4500 CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	1849	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	55	PSI
(C)	FIRST FINAL FLOW PRESSURE:	55	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	71	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	55	PSI
(F)	SECOND FINAL FLOW PRESSURE:	67	PSI
(G)	FINAL CLOSED-IN PRESSURE:	83	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	1849	PSI
WELL TEMPERATURE:		115	'F

OPEN TOOL: 10:15 AM

	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	33 MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	55	0	55	0	55	0	67
2	5	55	3	56	5	55	3	68
3	10	55	6	57	10	55	6	69
4	15	55	9	58	15	74	9	70
5	20	55	12	60	20	71	12	72
6	25	55	15	62	25	69	15	74
7	30	55	18	64	30	67	18	76
8			21	66			21	78
9			24	68			24	80
10			27	70			27	81
11			30	71			30	82
12							33	83
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