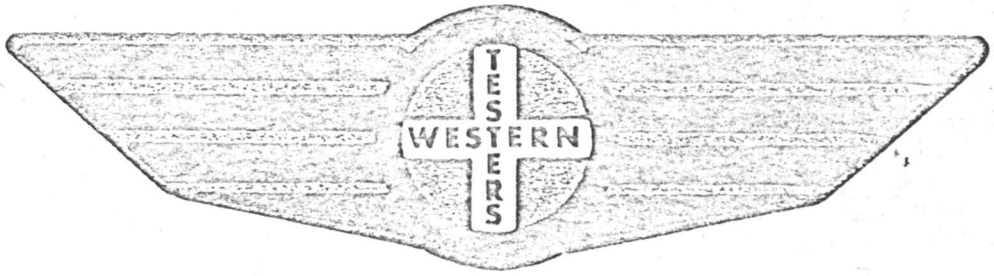
FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

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

COMPANY PETROLEUM ENERGY, INC. LEASE & WELL NO. #1 WILLMS "A" SEC. 14 TWP. 18S RGE. 8W TEST NO. 1 DATE 11/17/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11-17-85 TICKET #8926
CUSTOMER: PETROLEUM ENERGY INC. LEASE: WILLMS "A"
WELL: 1 TEST: 1 GEOLOGIST: M.J. WREATH
ELEVATION (KB): 1754 FORMATION: LANSING
SECTION: 14 TOWNSHIP: 18S
RANGE: 8W COUNTY: RICE STATE: KANSAS
GAUGE SN #3086 RANGE: 4500 CLOCK: 12

INTERVAL TEST FROM: 2868 FT TO: 2910 FT TOTAL DEPTH: 2910 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2863 FT SIZE: 6 5/8 IN PACKER DEPTH: 2868 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WHITE & ELLIS RIG #2
MUD TYPE: STARCH VISCOSITY: 41
WEIGHT: 9.3 WATER LOSS (CC): 12.0
CHLORIDES (P.P.M.): 36000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO

DRILL COLLAR LENGTH:	325	FT	I.D.: 2.25	IN	
WEIGHT PIPE LENGTH:		FT	I.D.:	IN	
DRILL PIPE LENGTH:	2522	FT	I.D.: 3.8	IN	
TEST TOOL LENGTH:	21	FT	TOOL SIZE: 5 1/2 OD	IN	
ANCHOR LENGTH:	42	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
INCREASED TO STRONG BLOW.
FINAL FLOW PERIOD STRONG BLOW
THROUGHOUT.

RECOVERED:	60 FT	OF:	GAS CUT MUD (SCUM OF OIL).
RECOVERED:	175 FT	OF:	OIL & GAS CUT MUD (25% OIL; 20% GAS; 55% MUD).
RECOVERED:	60 FT	OF:	HEAVY OIL & GAS CUT MUD
RECOVERED:	FT	OF:	(45% OIL; 20% GAS; 35% MUD; TRACE OF WATER).
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	

REMARKS:

TIME SET PACKER(S): 4:05 PM TIME STARTED OFF BOTTOM: 7:05 PM
WELL TEMPERATURE: 106 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 1520	PSI	
INITIAL FLOW PERIOD	MIN: 45	(B) 50	PSI TO (C) 57	PSI
INITIAL CLOSED IN PERIOD	MIN: 45	(D) 498	PSI	
FINAL FLOW PERIOD	MIN: 45	(E) 89	PSI TO (F) 94	PSI
FINAL CLOSED IN PERIOD	MIN: 45	(G) 405	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 1428	PSI	

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 11-17-85 TICKET #8926
CUSTOMER: PETROLEUM ENERGY INC. LEASE: WILLMS "A"
WELL: 1 TEST: 1 GEOLOGIST: M.J. WREATH
ELEVATION (KB): 1754 FORMATION: LANSING
SECTION: 14 TOWNSHIP: 18S
RANGE: 8W COUNTY: RICE STATE: KANSAS
GAUGE SN #3086 RANGE: 4500 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	1520	PSI
(B) FIRST INITIAL FLOW PRESSURE:	50	PSI
(C) FIRST FINAL FLOW PRESSURE:	57	PSI
(D) INITIAL CLOSED-IN PRESSURE:	498	PSI
(E) SECOND INITIAL FLOW PRESSURE:	89	PSI
(F) SECOND FINAL FLOW PRESSURE:	94	PSI
(G) FINAL CLOSED-IN PRESSURE:	405	PSI
(H) FINAL HYDROSTATIC PRESSURE:	1428	PSI
WELL TEMPERATURE:	106	'F

OPEN TOOL: 4:05 PM

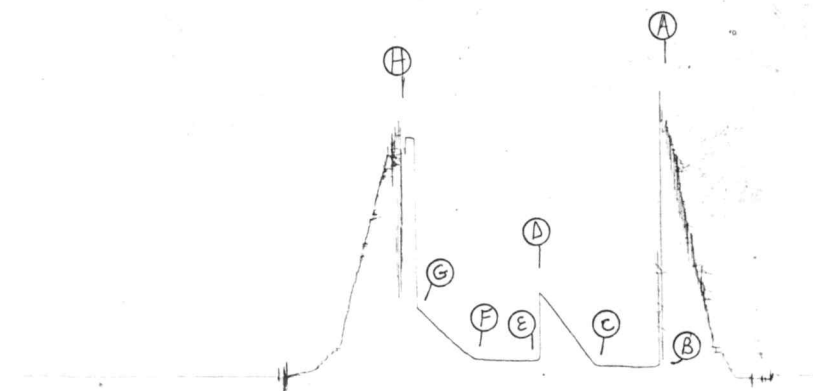
	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	45 MIN	45 MIN
INITIAL CLOSED-IN PRESSURE:	45 MIN	45 MIN
SECOND FLOW PRESSURE:	45 MIN	45 MIN
FINAL CLOSED-IN PRESSURE:	45 MIN	45 MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	50	0	57	0	89	0	94
2	5	50	3	64	5	89	3	96
3	10	50	6	95	10	89	6	111
4	15	50	9	122	15	89	9	128
5	20	50	12	154	20	89	12	142
6	25	53	15	187	25	89	15	167
7	30	56	18	225	30	89	18	186
8	35	57	21	258	35	90	21	211
9	40	57	24	293	40	92	24	232
10	45	57	27	320	45	94	27	256
11			30	353			30	275
12			33	383			33	301
13			36	419			36	325
14			39	450			39	350
15			42	481			42	378
16			45	498			45	405
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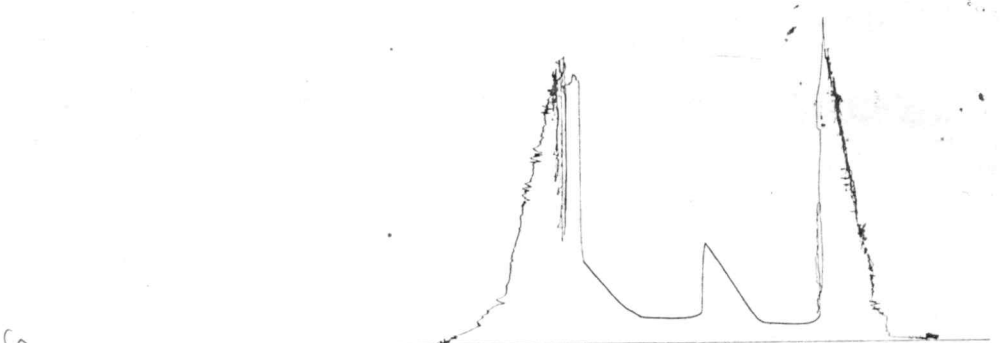
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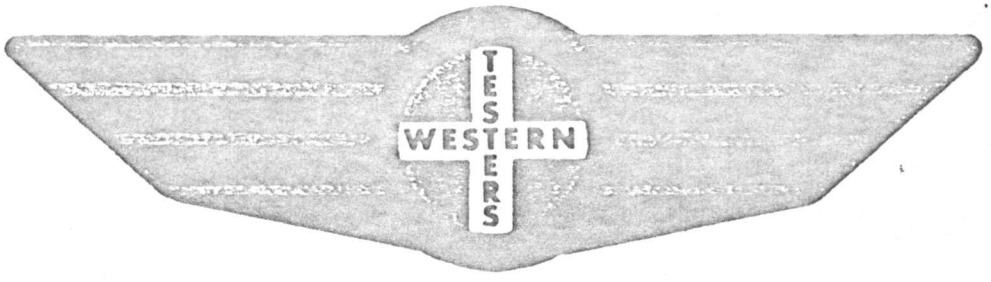


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FORMATION TEST REPORT



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

COMPANY PETROLEUM ENERGY, INC. LEASE & WELL NO. #1 WILLMS "A" SEC. 14 TWP. 18S RGE. 8W TEST NO. 2 DATE 11/19/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11-19-85 TICKET #9235
CUSTOMER: PETROLEUM ENERGY INC. LEASE: WILLMS "A"
WELL: 1 TEST: 2 GEOLOGIST: M. WREATH
ELEVATION (KB): 1754 FORMATION: ARBUCKLE
SECTION: 14 TOWNSHIP: 18S
RANGE: 8W COUNTY: RICE STATE: KANSAS
GAUGE SN #10270 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 3135 FT TO: 3204 FT TOTAL DEPTH: 3204 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3130 FT SIZE: 6 5/8 IN PACKER DEPTH: 3135 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WHITE & ELLIS RIG #2
MUD TYPE: STARCH VISCOSITY: 40
WEIGHT: 9.5 WATER LOSS (CC): 12.8
CHLORIDES (P.P.M.): 35000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO

DRILL COLLAR LENGTH:	325	FT	I.D.: 2.25	IN	
WEIGHT PIPE LENGTH:		FT	I.D.:	IN	
DRILL PIPE LENGTH:	2788	FT	I.D.: 3.8	IN	
TEST TOOL LENGTH:	22	FT	TOOL SIZE: 5 1/2 OD	IN	
ANCHOR LENGTH:	69	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 XH	IN	

BLOW: STRONG BLOW THROUGHOUT TEST.

RECOVERED:	180	FT	OF: SLIGHT MUD CUT GASSY OIL
RECOVERED:		FT	OF: (4% MUD; 35% GAS; 61% OIL).
RECOVERED:	1825	FT	OF: CLEAN GASSY OIL.
RECOVERED:		FT	OF: GRAVITY 36.
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:

REMARKS: PLUGGING ACTION ON BOTH FLOW PERIODS.

TIME SET PACKER(S): 5:10 AM TIME STARTED OFF BOTTOM: 7:10 AM
WELL TEMPERATURE: 103 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 1616	PSI	
INITIAL FLOW PERIOD	MIN: 30	(B) 169	PSI TO (C) 607	PSI
INITIAL CLOSED IN PERIOD	MIN: 30	(D) 1081	PSI	
FINAL FLOW PERIOD	MIN: 30	(E) 645	PSI TO (F) 800	PSI
FINAL CLOSED IN PERIOD	MIN: 30	(G) 1082	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 1616	PSI	

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 11-19-85 TICKET #9235
CUSTOMER: PETROLEUM ENERGY INC. LEASE: WILLMS "A"
WELL: 1 TEST: 2 GEOLOGIST: M. WREATH
ELEVATION (KB): 1754 FORMATION: ARBUCKLE
SECTION: 14 TOWNSHIP: 18S
RANGE: 8W COUNTY: RICE STATE: KANSAS
GAUGE SN #10270 RANGE: 4150 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	1616	PSI
(B) FIRST INITIAL FLOW PRESSURE:	169	PSI
(C) FIRST FINAL FLOW PRESSURE:	607	PSI
(D) INITIAL CLOSED-IN PRESSURE:	1081	PSI
(E) SECOND INITIAL FLOW PRESSURE:	645	PSI
(F) SECOND FINAL FLOW PRESSURE:	800	PSI
(G) FINAL CLOSED-IN PRESSURE:	1082	PSI
(H) FINAL HYDROSTATIC PRESSURE:	1616	PSI
WELL TEMPERATURE:	103	'F

OPEN TOOL: 5:10 AM

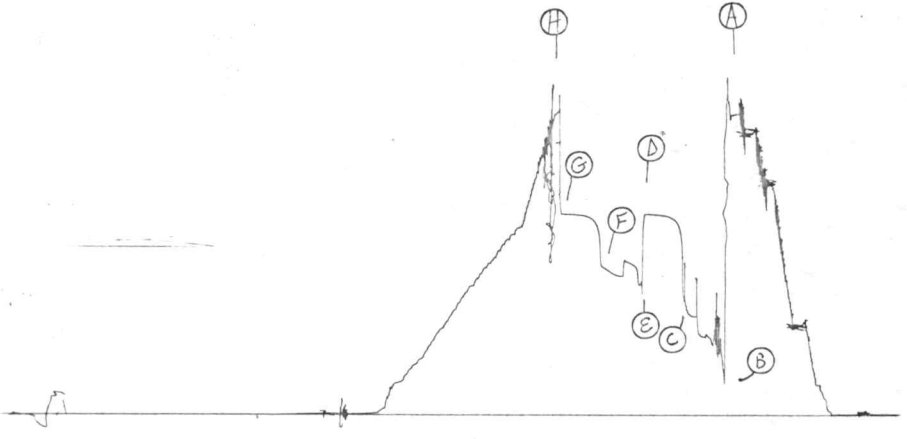
	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	30 MIN	30 MIN
SECOND FLOW PRESSURE:	30 MIN	30 MIN
FINAL CLOSED-IN PRESSURE:	30 MIN	30 MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	169	0	607	0	645	0	800
2	5	308	3	992	5	800	3	1010
3	10	379	6	1045	10	821	6	1051
4	15	415	9	1061	15	748	9	1065
5	20	448	12	1072	20	755	12	1074
6	25	529	15	1077	25	779	15	1078
7	30	607	18	1079	30	800	18	1079
8			21	1080			21	1080
9			24	1080			24	1081
10			27	1081			27	1082
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