

Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

14W Test No. 1 Date 9/20/84

DATE: 9/20/84 TICKET #6239 CUSTOMER: RAINS & WILLIAMSON OIL CO INC LEASE: "C" STIELOW GEOLOGIST: MCLEOD WELL: 3 TEST: 1 FORMATION: KANSAS CITY
TOWNSHIP: 115 ELEVATION (KB): 1731 SECTION: 34 COUNTY: RUSSELL STATE: KANSAS RANGE: 14W GAUGE SN #1563 CLOCK: 12 RANGE: 4200 INTERVAL TEST FROM: 2942 FT TO: 2972 FT TOTAL DEPTH: 2972 DEPTH OF SELECTIVE ZONE: FT PACKER DEPTH: 2937 FT SIZE: 6 5/8 IN PACKER DEPTH: 2942 FT SIZE: 6 5/8 IN PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: DRILLING CONTRACTOR: RAINS & WILLIAMSON MUD TYPE: STARCH VISCOSITY: 43
WEIGHT: 9.7 WATER LOSS (CC) WATER LOSS (CC): 15.2 CHLORIDES (P.P.M.): 64000 JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: REVERSED OUT? NO DRILL COLLAR LENGTH: FT I.D.: IN FT I.D.: WEIGHT PIPE LENGTH: I.D.: 3.8 DRILL PIPE LENGTH: 2920 IN FT TOOL SIZE: 5 1/2 TEST TOOL LENGTH: 22 IN ANCHOR LENGTH: 30 FT SIZE: 5 1/2 IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN BLOW: INITIAL FLOW PERIOD WEAK BLOW. 1" TO 2" BLOW. FINAL FLOW PERIOD WEAK BLOW. 2" BLOW. RECOVERED: 170 FT OF: GAS ABOVE FLUID. RECOVERED: 70 FT OF: HEAVY OIL & GAS CUT MUD. RECOVERED: FT OF: 22% OIL; 23% GAS; 5% WATER; 50% MUD. FT RECOVERED: OF: RECOVERED: FT OF:

REMARKS: SLID TOOL APPROXIMATLEY 7 FEET TO BOTTOM.

FT

FT

FT

FT OF:

OF:

OF:

OF:

RECOVERED:

RECOVERED:

RECOVERED:

RECOVERED:

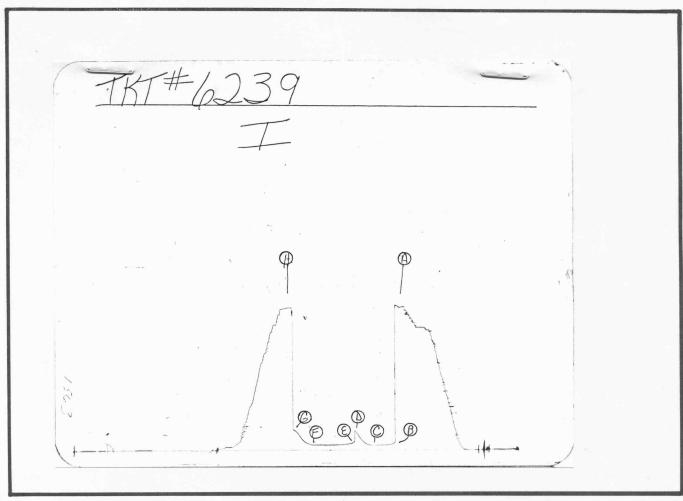
TIME SET PACKER(S): 1:45 AM		5,	TIME	STA	ARTED	OFF	BOT	TOM:	4:1	15 AM	I	
WELL TEMPERATURE: 100 'F												
INITIAL HYDROSTATIC PRESSURE:		2.		(A)	1593		PSI					
INITIAL FLOW PERIOD	MIN:	30		(B)	54		PSI	TO	(0)	54		PSI
INITIAL CLOSED IN PERIOD	MIN:	30		(D)	215		PSI					
FINAL FLOW PERIOD	MIH:	60		(E)	56		PSI	TO	(F)	56		PSI
FINAL CLOSED IN PERIOD	MIH:	30		(G)	225		PSI					
FINAL HYDROSTATIC PRESSURE		7,		(H)	1567		PSI					

## WESTERN TESTING CO. INC. PRESSURE DATA

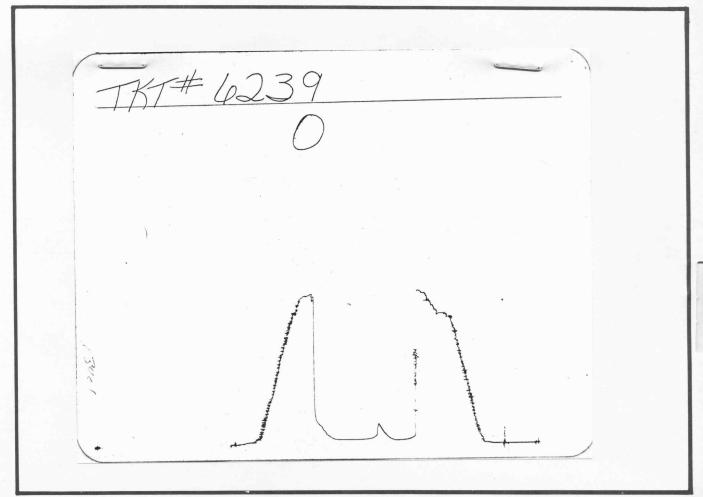
DATE: 9/20/84	TICKET #6239
CUSTOMER: RAINS & WILLIAMSON OIL CO INC	LEASE: "C" STIELOW
WELL: 3 TEST: 1	GEOLOGIST: MCLEOD
	N: KANSAS CITY
SECTION: 34 TOWNSHIP	115
RANGE: 14W COUNTY: RUSSELL	
	CLOCK: 12
Kimor: 1200	OZOOK: 12
(A) INITIAL HYDROSTATIC PRESSURE: 1593 PS	[[의 경시대 : 기업자 : 기기관리 :
(B) FIRST INITIAL FLOW PRESSURE: 54 PS	트립트 - 100 -
(C) FIRST FINAL FLOW PRESSURE: 54 PS	
(D) INITIAL CLOSED-IN PRESSURE: 215 PS	
(E) SECOND INITIAL FLOW PRESSURE: 56 PS	SI .
(F) SECOND FINAL FLOW PRESSURE: 56 PS	SI
(G) FINAL CLOSED-IN PRESSURE: 225 PS	SI .
(H) FINAL HYDROSTATIC PRESSURE: 1567 PS	SI V
WELL TEMPERATURE: 100 'F	
OPEN TOOL: 1:45 AM	
TIME - GIVEN TIME -	- ACTUAL
FIRST FLOW PRESSURE: 30 MIN 30	MIN
INITIAL CLOSED-IN PRESSURE: 30 MIN 30	MIN
SECOND FLOW PRESSURE: 60 MIN 60	
FINAL CLOSED-IN PRESSURE: 30 MIN 30	MIN

### PRESSURE BREAKDOWN

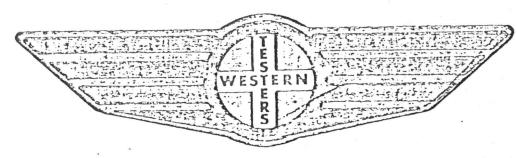
	FIRS	T FLOW	AITIMI	L SHUT-IN	SECO	ND FLOW	FINAL	SHUT-IN
PT	MIH	PRESSURE	MIH	PRESSURE	MIN	PRESSURE	MIH	PRESSURE
1	0	54	0	54	0	56	0	56
2	5	54	3	54	5	56	3	58
3	10	54	6	54	10	56	6	63
4	15	54	9	57	15	56	9	73
5	20	54	12	65	20	56	12	83
6	25	54	15	78	25	5 <b>6</b>	15	103
7	3 <b>0</b>	54	18	100	30	56	18	125
8			21	124	35	56	21	159
9			24	156	40	5 <b>6</b>	24	191
10			27	192	45	56	27	212
11			30	215	50	56	30	225
12					55	56		
13					60	56		
12			30	215	55	56	30	225



Inside Recorder



Outside Recorder



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TICKET #6240 DATE: 9/20/84 LEASE: "C" STIELDW CUSTOMER: RAINS & WILLIAMSON DIL CO INC TEST: 2 GEOLOGIST: MCLEOD ELEVATION (KB): 1731 FORMATION: KANSAS CITY TOWNSHIP: 115 SECTION: 34 COUNTY: RUSSELL RANGE: 14W STATE: KANSAS GAUGE SN #1563 CLOCK: 12 RANGE: 4200 INTERVAL TEST FROM: 2978 FT TO: 2988 FT TOTAL DEPTH: 2988 DEPTH OF SELECTIVE ZONE: FT PACKER DEPTH: 2973 FT SIZE: 6 5/8 IN PACKER DEPTH: 2978 FT SIZE: 6 5/8 IN PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: DRILLING CONTRACTOR: RAINS & WILLIAMSON MUD TYPE: STARCH VISCOSITY: 43 WEIGHT: 9.7 WATER LOSS (CC): 8.0 CHLORIDES (P.P.M.): 62000 JARS - MAKE: SERIAL NUMBER: DID WELL FLOW? NO REVERSED OUT? NO DRILL COLLAR LENGTH: FT I.D.: IN WEIGHT PIPE LENGTH: FT I.D.: FT DRILL PIPE LENGTH: 2956
TEST TOOL LENGTH: 22
ANCHOR LENGTH: 10 I.D.: 3.8 IH FT TOOL SIZE: 5 1/2 IN FT SIZE: 5 1/2 IN SURFACE CHOKE SIZE: 3/4 SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN BLOW: INITIAL FLOW PERIOD WEAK BLOW INCREASED TO A FAIR BLOW. 1" TO 4" BLOW. FINAL FLOW PERIOD FAIR BLOW. 4" BLOW. FT OF: GAS ABOVE FLUID. RECOVERED: 300 RECOVERED: 80 FT OF: MUDDY GASSY OIL. RECOVERED: FT OF: 52% OIL; 25% GAS; 10% WATER; 13% MUD. RECOVERED: FT OF: REMARKS: SLID TOOL APPROXIMATLEY 4 FEET TO BOTTOM. TIME SET PACKER(S): 1:54 PM TIME STARTED OFF BOTTOM: 4:24 PM WELL TEMPERATURE: 100 'F INITIAL HYDROSTATIC PRESSURE: PSI (A) 1614 INITIAL FLOW PERIOD MIN: 30 PSI TO (C) 45 PSI (B) 45 MIH: 30 (D) 322 PSI INITIAL CLOSED IN PERIOD FINAL CLOSED IN PERIOD MIN: 30
FINAL HYDROSTATIO DESCRIPTION (E) 54 PSI TO (F) 57 PSI

(G) 30**0** 

(H) 1585

FINAL HYDROSTATIC PRESSURE

PSI

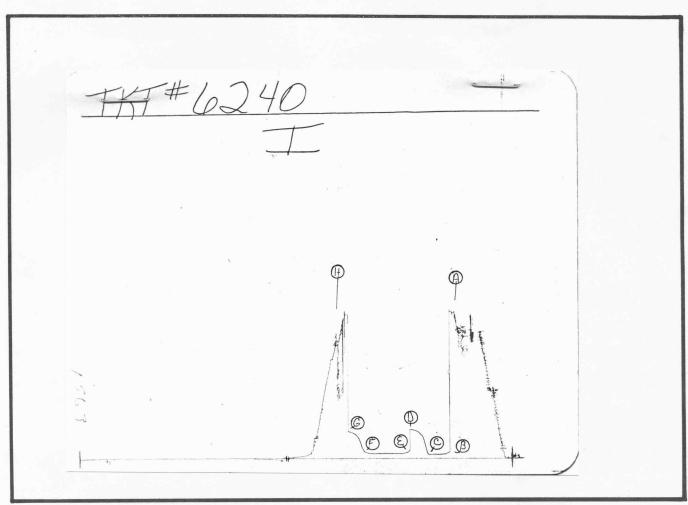
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## WESTERN TESTING CO. INC. PRESSURE DATA

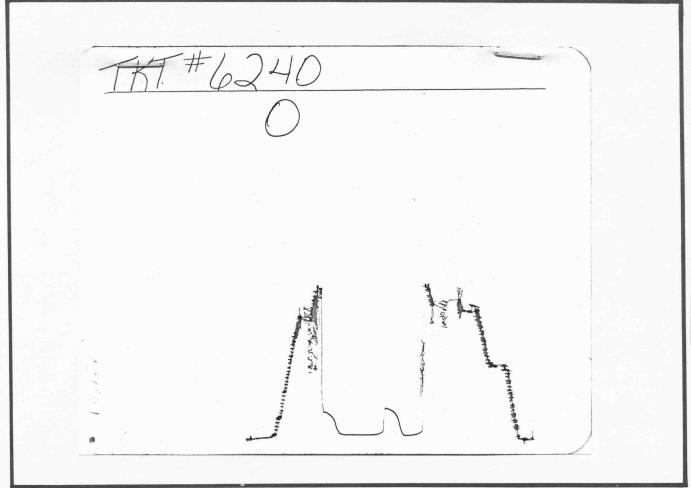
DATE: 9/20/84 TICK	ET #6240
CUSTOMER: RAINS & WILLIAMSON DIL CO INC LEASI	E: "C" STIELOW
WELL: 3 TEST: 2 GEOLG	OGIST: MCLEOD
ELEVATION (KB): 1731 FORMATION: KANSA	AS CITY
SECTION: 34 TOWNSHIP: 11S	
RANGE: 14W COUNTY: RUSSELL STATE	E: KANSAS
GAUGE SN #1563 RANGE: 4200 CLOC	
NINGE OF TERM	
(A) INITIAL HYDROSTATIC PRESSURE: 1614 PSI	
(B) FIRST INITIAL FLOW PRESSURE: 45 PSI	
(C) FIRST FINAL FLOW PRESSURE: 45 PSI	
(D) INITIAL CLOSED-IN PRESSURE: 322 PSI	
(E) SECOND INITIAL FLOW PRESSURE: 54 PSI	
(F) SECOND FINAL FLOW PRESSURE: 57 PSI	
(G) FINAL CLOSED-IN PRESSURE: 300 PSI	
(H) FINAL HYDROSTATIC PRESSURE: 1585 PSI	
WELL TEMPERATURE: 100 'F	
OPEN TOOL: 1:54 PM	
TIME - GIVEN TIME - ACTUAL	
FIRST FLOW PRESSURE: 30 MIN 30 MIN	
INITIAL CLOSED-IN PRESSURE: 30 MIN 30 MIN	
FINAL CLOSED-IN PRESSURE: 30 MIN 30 MIN	

### PRESSURE BREAKDOWN

	FIRS	T FLOW	INITIAL	SHUT-IN	SECO	ND FLOW	FINAL	SHUT-IN	
PT	MIH	PRESSURE	MIH	PRESSURE	MIH	PRESSURE	MIN	PRESSURE	
1	0	45	0	45	0	54	0	57	
2	5	45	3	5 <b>5</b>	5	54	3	65	
3	10	45	6	130	10	54	6	71	
4	15	45	9	210	15	54	9	105	
5	20	45	12	25 <b>8</b>	20	54	12	161	
6	25	45	15	28 <b>3</b>	25	54	15	219	
7	30	45	18	29 <b>9</b>	30	54	18	253	
8			21	310	35	54	21	273	
9			24	318	40	54	24	284	
10			27	321	45	54	27	293	
11			30	322	50	54	30	300	
12					55	, 54			
13					60	57			
14									

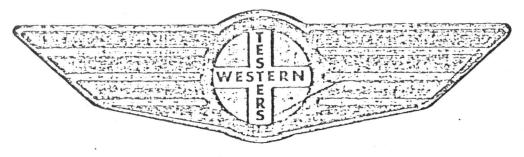


Inside Recorder



Outside Recorder

ompanyRAINS & WILLIAMSON OIL CO. INEease and Well No



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DATE: 9/21/84 TICKET #6241 CUSTOMER: RAINS & WILLIAMSON OIL CO INC LEASE: "C" STIELOW WELL: 3 TEST: 3 GEOLOGIST: MCLEOD ELEVATION (KB): 1731 FORMATION: KANSAS CITY SECTION: 34 TOWNSHIP: 115 RANGE: 14W COUNTY: RUSSELL STATE: KANSAS GAUGE SN #1563 RANGE: 4200 CLOCK: 12 INTERVAL TEST FROM: 3028 FT TO: 3052 FT TOTAL DEPTH: 3052 DEPTH OF SELECTIVE ZONE: FT PACKER DEPTH: 3023 FT SIZE: 6 5/8 IN PACKER DEPTH: 3028 FT SIZE: 6 5/8 IN PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: DRILLING CONTRACTOR: RAINS & WILLIAMSON MUD TYPE: STARCH VISCOSITY: 43 WEIGHT: 9.7 WATER LOSS (CC): 8.0 CHLORIDES (P.P.M.): 62000 JARS - MAKE: DID WELL FLOW? NO SERIAL NUMBER: REVERSED OUT? NO DRILL COLLAR LENGTH: FT I.D.: IN WEIGHT PIPE LENGTH: FT I.D.: IN DRILL PIPE LENGTH: 3006 FT I.D.: 3.8 IN

TEST TOOL LENGTH: 22 FT TOOL SIZE: 5 1/2 IN

ANCHOR LENGTH: 24 FT SIZE: 5 1/2 IN

SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4

MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IH BLOW: INITIAL FLOW PERIOD WEAK BLOW. 1/2" TO 1 1/2" BLOW. FINAL FLOW PERIOD WEAK BLOW. 1" BLOW. RECOVERED: 120 FT OF: SLIGHTLY OIL CUT MUDDY WATER. RECOVERED: FT OF: 2% OIL; 40% MUD; 58% WATER. RECOVERED: 120 FT OF: MUDDY WATER. RECOVERED: FT OF: 15% MUD; 85% WATER; WITH A SHOW OF OIL. RECOVERED: FT OF: CHLORIDES 82000 PPM. RECOVERED: FT OF: RECOVERED: FT OF: RECOVERED: FT OF: RECOVERED: FT OF: REMARKS: TIME SET PACKER(S): 5:15 AM TIME STARTED OFF BOTTOM: 7:45 AM WELL TEMPERATURE: 106 'F INITIAL HYDROSTATIC PRESSURE: (A) 1634 PSI INITIAL FLOW PERIOD MIN: 30 (B) 54 PSI TO (C) 59 PSI INITIAL CLOSED IN PERIOD MIN: 30 (D) 738 PSI FINAL FLOW PERIOD FINAL CLOSED IN PERIOD MIN: 60 (E) 92 PSI TO (F) 125 PSI

MIN: 30

FINAL HYDROSTATIC PRESSURE

(G) 731 '

(H) 1618

PSI

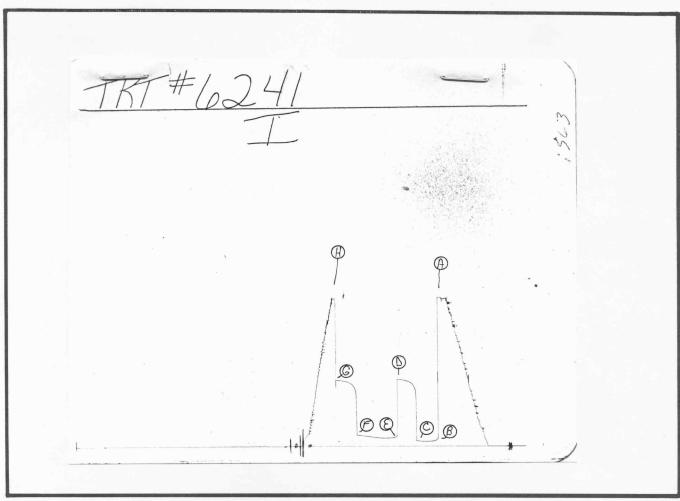
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## WESTERN TESTING CO. INC. PRESSURE DATA

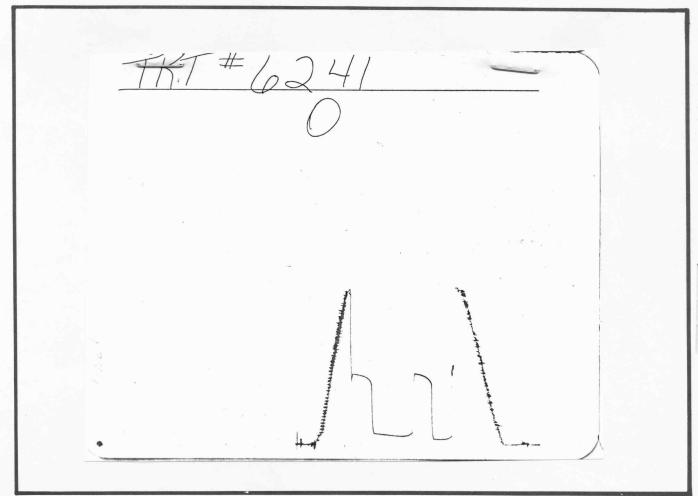
DATE: 9/21/84	TICKET #6241
CUSTOMER: RAINS & WILLIAMSON DIL CO	INC LEASE: "C" STIELOW
WELL: 3 TEST: 3	GEOLOGIST: MCLEOD
ELEVATION (KB): 1731	FORMATION: KANSAS CITY
SECTION: 34	TOWNSHIP: 11S
RANGE: 14W COUNTY: RU	SSELL STATE: KANSAS
GAUGE SN #1563 RANGE: 420	00 CLOCK: 12
(A) INITIAL HYDROSTATIC PRESSURE: 16	634 PSI
(B) FIRST INITIAL FLOW PRESSURE: 54	
(C) FIRST FINAL FLOW PRESSURE: 59	
(D) INITIAL CLOSED-IN PRESSURE: 73	
(E) SECOND INITIAL FLOW PRESSURE: 92	
(F) SECOND FINAL FLOW PRESSURE: 12	
(G) FINAL CLOSED-IN PRESSURE: 73	
(H) FINAL HYDROSTATIC PRESSURE: 16	
LIEL . TELLES	
OPEN TOOL: 5:15 AM	6 'F
TIME - GI	The state of the s
	MIN 30 MIN
	MIN 30 MIN
	WIN 60 WIN
FINAL CLOSED-IN PRESSURE: 30	MIN 30 MIN

P	RF	55	URE	BI	RFA	KDI	HWC

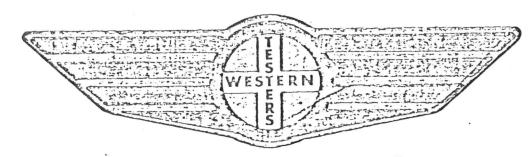
	FIRS	T FLOW	INITIA	L SHUT-IN	SECO	ND FLOW	FINAL SHUT-IN		
PT	MIH	PRESSURE	MIH	PRESSURE	MIH	PRESSURE	MIN	PRESSURE	
1	0	54	0	5 <b>9</b>	0	92	0	125	
2	5	54	3	636	5	92	3	618	
3	10	54	6	680	10	92	6	665	
4	15	54	9	701	15	92	9	688	
5	20	54	12	713	20	92	12	702	
6	25	56	15	720	25	94	15	710	
7	30	59	18	727	30	98	18	717	
8			21	731	35	102	21	721	
9			24	734	40	107	24	725	
10			27	736	45	112	27	729	
11			30	738	5 <b>0</b>	117	30	731	
12					5 <b>5</b>	. 121			
13					60	125			
14									



Inside Recorder



Outside Recorder



Home Office:

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Wichita, Kansas 67201

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TICKET #6242 DATE: 9/22/84 LEASE: "C" STIELOW CUSTOMER: RAINS & WILLIAMSON OIL CO INC
WELL: 3 TEST: 4 GEOLOGIST: MCLEOD FORMATION: KANSAS CITY ELEVATION (KB): 1731 TOWNSHIP: 115 SECTION: 34 STATE: KANSAS RANGE: 14W COUNTY: RUSSELL CLOCK: 12 RANGE: 4200 GAUGE SN #1563 INTERVAL TEST FROM: 3107 FT TO: 3155 FT TOTAL DEPTH: 3155
DEPTH OF SELECTIVE ZONE: FT PACKER DEPTH: 3102 FT SIZE: 6 5/8 IN PACKER DEPTH: 3107 FT SIZE: 6 5/8 IN PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: DRILLING CONTRACTOR: RAINS & WILLIAMSON MUD TYPE: STARCH VISCOSITY: 42
WEIGHT: 9.5 WATER LOSS (CC): WATER LOSS (CC): 6.4 CHLORIDES (P.P.M.): 62000 JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO FT I.D.: DRILL COLLAR LENGTH: IN WEIGHT PIPE LENGTH: FT IN I.D.: DRILL PIPE LENGTH: 3085 FT I.D.: 3.8 IN FT TOOL SIZE: 5 1/2 IN SIZE: 5 1/2 IN TEST TOOL LENGTH: 22 ANCHOR LENGTH: 48 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 BLOW: INITIAL FLOW PERIOD VERY WEAK BLOW. DIED IN 19 MINUTES. FINAL FLOW PERIOD NO BLOW. FLUSHED TOOL. RECOVERED: 10 FT OF: MUD. RECOVERED: FT OF: FT RECOVERED: OF: RECOVERED: FT OF: FT RECOVERED: OF: RECOVERED: FT OF: RECOVERED: FT OF: FT RECOVERED: OF: RECOVERED: FT OF: REMARKS: TIME STARTED OFF BOTTOM: 4:40 AM TIME SET PACKER(S): 2:40 AM WELL TEMPERATURE: 103 'F INITIAL HYDROSTATIC PRESSURE: (A) 1654 PSI PSI TO (C) 41 PSI INITIAL FLOW PERIOD MIN: 30 (B) 41 PSI INITIAL CLOSED IN PERIOD MIN: 30 (D) 773 PSI TO (F) 33 PSI MIN: 30 (E) 49 FINAL FLOW PERIOD FINAL CLOSED IN PERIOD MIN: 30 (G) 713 PSI

PSI

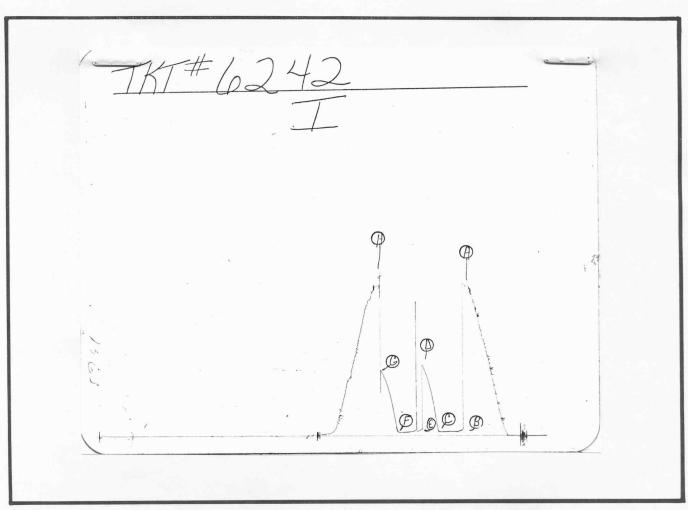
(H) 1639

FINAL HYDROSTATIC PRESSURE

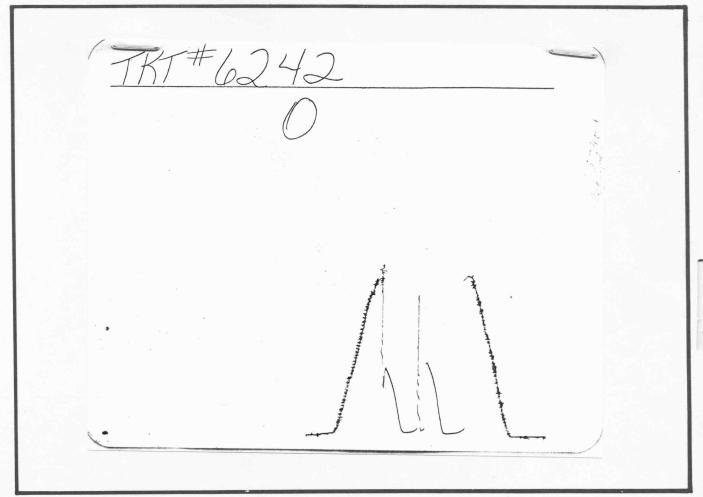
## WESTERN TESTING CO. INC. PRESSURE DATA

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DATE	: 9/2	2/84						TIC	KET #6	242		
CUST	OMER:	RAINS & WI	LLIAMS	ON OIL	COI	HC		LEA	SE: "	C" ST	IELOW	
WELL	: 3		T	EST:	4			GEO	LOGIST	. MCI	EOD	
ELEV	ATION	(KB): 1731			5.	FORM	ATION:	KAN	SAS CI	TY		
SECT	ION:	34					SHIP:					
RANG	E: 14	W	C	OUNTY:	RUS	SELL		STA	TE: K	ANSAS		
GAUG	E SN #	1563		ANGE:				CLO	CK: 1	2		
CAD	IHITI	AL HYDROSTA	TIC PR	ESSURE	: 165	4	PSI					
(B)	FIRST	INITIAL FL	OW PRE	SSURE:	41		PSI					
CCO	FIRST	FINAL FLOW	PRESS	URE:	41		PSI					
(D)	IHIHI	AL CLOSED-I	N PRES	SURE:	773		PSI					
(E)	SECON	D INITIAL F	LOW PRI	ESSURE	: 49		PSI					
(F)	SECON	D FINAL FLO	W PRES	SURE:	33		PSI					
(G)	FINAL	CLOSED-IN	PRESSU	RE:	713		PSI					
CHO		HYDROSTATI	C PRES	SURE:	163	9	PSI					
		RATURE:			103		'F					
OPEN	TOOL:	2:40 AM										
				TIME	- GIV	EN TI	ME - AC	TUAL				
		PRESSURE:			M			MIN				
		OSED-IN PRE						MIH				
		W PRESSURE:			M	IN 30		MIN				
FINA	L CLOS	ED-IN PRESS	URE:	30	M	IN 30		MIH				
						BREAK						
		T FLOW							FINAL			
PT			MIH	PRESS			PRESSU			PRESS	SURE	
1	0	41	0		41	_			0		3 <b>3</b>	
2	5	41	3		41	5		49	3		33	
3	10	41	6		43	10		55	6		44	
4	15	41	9		133	15		44			144	
5	20	41	12		282	20		38	12		266	

	FIRS	T FLOW	INITIA	NITIAL SHUT-IN SECOND FLOW		FINA	L SHUT-IN	
PT	MIH	PRESSURE	MIH	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	41	0	41	0	49	0	33
2	5	41	3	41	5	49	3	33
3	10	41	6	43	10	55	6	44
4	15	41	9	133	15	44	9	144
5	20	41	12	28 <b>2</b>	20	38	12	266
6	25	41	15	411	25	36	15	38 <b>3</b>
7	30	41	18	51 <b>3</b>	30	3 <b>3</b>	18	472
8			21	59 <b>9</b>			21	546
9			24	662			24	609
10			27	721			27	660
11			30	773			30	713
12								



Inside Recorder



Outside Recorder