WESTERN TESTING CO. INC. SUBSURFACE PRESSURE SURVEY

TICKET #2592 DATE: 11/2/83 LEASE: RYAN CUSTOMER: GEAR PETROLEUM CO. INC. GEOLOGIST: G.ZORGER TEST: 1 WELL: #1-30 FORMATION: CHEROKEE SAND ELEVATION (KB): 2293 TOWNSHIP: 19S SECTION: 30 STATE: KANSAS COUNTY: RUSH RANGE: 20W CLOCK: 12 GAUGE SN #1560 RANGE: 4500 FT TOTAL DEPTH: 4349 FT TO: 4349 INTERVAL TEST FROM: 4320 FT DEPTH OF SELECTIVE ZONE: PACKER DEPTH: 4315 FT SIZE: 6 5/8 IN PACKER DEPTH: 4320 FT SIZE: 6 5/8 IN FT SIZE: IN PACKER DEPTH: FT SIZE: PACKER DEPTH: DRILLING CONTRACTOR: KAW DRLG #1 VISCOSITY: 42 MUD TYPE: STARCH WATER LOSS (CC): 13.6 WEIGHT: 9.7 CHLORIDES (P.P.M.): 46000 JARS - MAKE: SERIAL NUMBER: DID WELL FLOW? NO REVERSED OUT? NO FT I.D.: IN DRILL COLLAR LENGTH: WEIGHT PIPE LENGTH: 300 FT I.D.: 2.7 IH I.D.: 3.8 DRILL PIPE LENGTH: 3999 FT IN FT TOOL SIZE: 5 1/2 O.D. IN TEST TOOL LENGTH: 21 5 1/2 O.D. IN ANCHOR LENGTH: 29 FT SIZE: SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 TOOL JOINT SIZE: 4 1/2 XH IN MAIN HOLE SIZE: 7 7/8 IN BLOW: INITIAL FLOW PERIOD STRONG BLOW THROUGHOUT. FINAL FLOW PERIOD STRONG BLOW DECREASING TO GOOD BLOW. RECOVERED: 1150 FT OF: SALT WATER. CHLORIDES 32000 P.P.M. RECOVERED: FT OF: RECOVERED: FT OF: RECOVERED: FT OF: RECOVERED: FT OF: RECOVERED: FT RECOVERED: FT OF: RECOVERED: FT OF: RECOVERED: FT OF: REMARKS: TIME SET PACKER(S): 10:50 P.M. TIME STARTED OFF BOTTOM: 12:50 A.M. WELL TEMPERATURE: 124 'F (A) 2261 PSI INITIAL HYDROSTATIC PRESSURE: PSI TO (C) 536 PSI MIH: 30 (B) 440 INITIAL FLOW PERIOD (D) 541 PSI MIN: 30 INITIAL CLOSED IN PERIOD PSI PSI TO (F) 547 FINAL FLOW PERIOD MIH: 30 (E) 541 (G) 547 PSI FINAL CLOSED IN PERIOD MIN: 27

(H) 2214

FINAL HYDROSTATIC PRESSURE

PSI

WESTERN TESTING CO. INC. PRESSURE DATA

DATE: 11/2/83			TICKET	#2592	
CUSTOMER: GEAR PETROLEUM C	D. INC.		LEASE:	RYAN	
WELL: #1-30 T	EST: 1		GEOLOG	ST: G.Z0	RGER
ELEVATION (KB): 2293		FORMATIO	N: CHEROKE	E SAND	
SECTION: 30		TOWNSHIP	: 195		
RANGE: 20W C	OUNTY: RU	SH	STATE:	KANSAS	
GAUGE SN #1560 R	ANGE: 450	D	CLOCK:	12	
(A) INITIAL HYDROSTATIC PR	ESSURE: 22	61 PS	I		
(B) FIRST INITIAL FLOW PRE	SSURE: 44	D PS	I		
(C) FIRST FINAL FLOW PRESS	URE: 530	B PS	I		
(D) INITIAL CLOSED-IN PRES	SURE: 54:	1 PS	I		
(E) SECOND INITIAL FLOW PR	ESSURE: 54	1 PS	I		
(F) SECOND FINAL FLOW PRES	SURE: 54	7 PS	I		
(G) FINAL CLOSED-IN PRESSU	RE: 54	7 PS	I		
(H) FINAL HYDROSTATIC PRES	SURE: 22:	14 PS	I		
WELL TEMPERATURE:	12	4 ' F			
OPEN TOOL: 10:50 P.M					
	TIME - GI	VEN TIME -	ACTUAL		
FIRST FLOW PRESSURE:	30 1	MIN 30	MIH		
INITIAL CLOSED-IN PRESSURE:	30	MIN 30	MIH		
SECOND FLOW PRESSURE:	30 1	MIN 30	MIH		
FINAL CLOSED-IN PRESSURE.	30	MIN 27	MIN		

PRESSURE BREAKDOW	SSURF BREA	KDUMN	
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	FIRS	T FLOW	INITIA	L SHUT-IN	SECO	ND FLOW	FINAL	SHUT-IN
PT	MIH	PRESSURE	MIH	PRESSURE	MIH	PRESSURE	MIH	PRESSURE
1	0	440	0	536	0	541	0	547
2	5	447	3	537	5	543	3	547
3	10	486	6	538	10	545	6	547
4	15	514	9	539	15	546	9	547
5	20	528	12	540	20	546	12	547
6	25	534	15	541	25	547	15	547
7	30	536	18	541	30	547	18	547
8			21	541			21	547
9			24	541			24	547
10			27	541			27	547
11			30	541				

2592 Q

WESTERN TESTING CO. INC. SUBSURFACE PRESSURE SURVEY

DATE: 11/3/83 TICKET #2593 CUSTOMER: GEAR PETROLEUM CO. INC. LEASE: RYAN WELL: #1-30 TEST: 2 GEOLOGIST: G ZORGER ELEVATION (KB): 2293 FORMATION: CHEROKEE SAND. SECTION: 30 TOWNSHIP: 195 RANGE: 20W COUNTY: RUSH STATE: KANSAS GAUGE SN #1560 RANGE: 4500 CLOCK: 12 INTERVAL TEST FROM: 4358 FT TO: 4366 FT TOTAL DEPTH: 4366 DEPTH OF SELECTIVE ZONE: FT PACKER DEPTH: 4358 FT SIZE: 6 5/8 IN PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IH DRILLING CONTRACTOR: KAW DRLG #1 MUD TYPE: STARCH VISCOSITY: 42 WEIGHT: 9.7 WATER LOSS (CC): 13.6 CHLORIDES (P.P.M.): 46000 JARS - MAKE: W.T.C SERIAL NUMBER: 411 DID WELL FLOW? NO DRILL COLLAR LENGTH: REVERSED OUT? NO WEIGHT PIPE LENGTH: 300 FT IND.: IN I.D.: 2.7 IH DRILL PIPE LENGTH: 4032 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 26 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 8 FT SIZE: 5 1/2 O.D 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 8 MINUTES.

RECOVERED:	5		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): 1:05 P.M.			TIME ST	ARTED OF	BOTTON	1: 2:	05 P.M.	
WELL TEMPERATURE: 115 'F								
INITIAL HYDROSTATIC PRESSURE:			(A)	2260	PSI			
INITIAL FLOW PERIOD	MIH:	30	(B)	47	PSI TO	(C)	47	PSI
INITIAL CLOSED IN PERIOD	MIH:	30	(D)	50	PSI			
FINAL FLOW PERIOD	MIH:	0	(E)	0	PSI TO	(F)	0	PSI
FINAL CLOSED IN PERIOD	MIH:	0	(G)	0	PSI			
FINAL HYDROSTATIC PRESSURE			(H)	2244	PSI			

WESTERN TESTING CO. INC. PRESSURE DATA

DATE: 11/3/83			TICKET	#2593
CUSTOMER: GEAR PETROLEUM	CO. INC.		LEASE:	RYAN
WELL: #1-30	TEST: 2		GEOLOG1	ST: G ZORGER
ELEVATION (KB): 2293		FORMATION	H: CHEROKE	E SAND.
SECTION: 30		TOWNSHIP	195	
RANGE: 20W	COUNTY: RUS	Н	STATE:	KANSAS
GAUGE SN #1560	RANGE: 4500	-	CLOCK:	12
(A) INITIAL HYDROSTATIC	PRESSURE: 226	O PS	I	
(B) FIRST INITIAL FLOW P	RESSURE: 47	PS:	I	
(C) FIRST FINAL FLOW PRE	SSURE: 47	PS:	I	
(D) INITIAL CLOSED-IN PR	ESSURE: 50	PS:	I	
(E) SECOND INITIAL FLOW	PRESSURE: 0	PS:	I	
(F) SECOND FINAL FLOW PR	ESSURE: 0	PS:	I	
(G) FINAL CLOSED-IN PRES	SURE: 0	PS:	I	
(H) FINAL HYDROSTATIC PR	ESSURE: 224	4 PS	I	
WELL TEMPERATURE:	115	' F		
OPEN TOOL: 1:05 P.M.				
	TIME - GIV	VEN TIME -	ACTUAL	
FIRST FLOW PRESSURE:	30	11N 30	MIH	
INITIAL CLOSED-IN PRESSUR	E: 30 1	11H 30	MIN	
SECOND FLOW PRESSURE:	ħ	1IH 0	MIN	
FINAL CLOSED-IN PRESSURE:	1	1IH 0	MIH	

PRESSURE BREAKDOWN

			PRESSURE	BKEHK	חשטע		
FIRS	T FLOW	INITIA	L SHUT-IN	SECO	ND FLOW	FINAL	SHUT-IN
MIH	PRESSURE	MIN	PRESSURE	MIH	PRESSURE	MIN	PRESSURE
0	47	0	47	0	0	0	0
5	47	3	47				
10	47	6	48				
15	47	9	48				
20	47	12	49				
25	47	15	49				
30	47	18	49				
		21	50				
		24	50				
		27	50				
		30	5 0				
	MIN 0 5 10 15 20 25	0 47 5 47 10 47 15 47 20 47 25 47	FIRST FLOW INITIAL MIN PRESSURE MIN 0 47 0 5 47 3 10 47 6 15 47 9 20 47 12 25 47 15 30 47 18 21 24 27	FIRST FLOW INITIAL SHUT-IN MIN PRESSURE 0 47 0 47 5 47 3 47 10 47 6 48 15 47 9 48 20 47 12 49 25 47 15 49 30 47 18 49 21 50 24 50 27 50	FIRST FLOW INITIAL SHUT-IN SECO MIN PRESSURE MIN PRESSURE MIN 0 47 0 47 0 5 47 3 47 10 47 6 48 15 47 9 48 20 47 12 49 25 47 15 49 30 47 18 49 21 50 24 50 27 50	FIRST FLOW INITIAL SHUT-IN SECOND FLOW MIN PRESSURE 0 47 0 47 0 0 5 47 3 47 10 47 6 48 15 47 9 48 20 47 12 49 25 47 15 49 30 47 18 49 21 50 24 50 27 50	FIRST FLOW INITIAL SHUT-IN SECOND FLOW FINAL MIN PRESSURE MIN PRESSURE MIN PRESSURE MIN PRESSURE MIN O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

WESTERN TESTING CO. INC. SUBSURFACE PRESSURE SURVEY

DATE: 11/4/83 TICKET #2594 CUSTOMER: GEAR PETROLEUM CO. INC. LEASE: RYAN WELL: #1-30 TEST: 3 GEOLOGIST: GERRY ZORGER FORMATION: CONGLOMERATE ELEVATION (KB): 2293 SECTION: 30 TOWNSHIP: 195 STATE: KANSAS RANGE: 20W COUNTY: RUSH GAUGE SN #1560 RANGE: 4500 CLOCK: 12 INTERVAL TEST FROM: 4390 FT TO: 4404 FT TOTAL DEPTH: 4434 DEPTH OF SELECTIVE ZONE: FT PACKER DEPTH: 4390 FT SIZE: 6 5/8 IN PACKER DEPTH: 4404 FT SIZE: 6 5/8 IN PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: DRILLING CONTRACTOR: KAW DRLG #1 MUD TYPE: STARCH VISCOSITY: 51 WEIGHT: 9.8 WATER LOSS (CC): 10.2 CHLORIDES (P.P.M.): 45000 JARS - MAKE: W.T.C. SERIAL NUMBER: 411 DID WELL FLOW? NO REVERSED DUT? NO DRILL COLLAR LENGTH: FT I.D.: IN WEIGHT PIPE LENGTH: 300 FT I.D.: 2.7 IN DRILL PIPE LENGTH: 4088 FT I.D.: 3.8 IN TEST TOOL LENGTH: 32 FT TOOL SIZE: 5 1/2 O.D. IN SIZE: 5 1/2 0.D. IN ANCHOR LENGTH: 14 FT SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 7 7/8 IN MAIN HOLE SIZE: TOOL JOINT SIZE: 4 1/2 XH IN BLOW: INITIAL FLOW PERIOD VERY WEAK BLOW. DIED IN 10 MINUTES. FINAL FLOW PERIOD NO BLOW. RECOVERED: 1 FT OF: MUD RECOVERED: FT OF: RECOVERED: FT OF: RECOVERED: FT OF: RECOVERED: FT RECOVERED: FT OF: RECOVERED: FT OF: RECOVERED: FT OF: RECOVERED: FT OF: REMARKS: TIME SET PACKER(S): 6:00 P.M. TIME STARTED OFF BOTTOM: 8:00 P.M. WELL TEMPERATURE: 117 'F (A) 2342 PSI INITIAL HYDROSTATIC PRESSURE: PSI TO (C) 44 PSI INITIAL FLOW PERIOD MIH: 30 (B) 44 (D) 65 PSI INITIAL CLOSED IN PERIOD MIN: 27 (E) 46 PSI TO (F) 46 PSI FINAL FLOW PERIOD MIN: 30

MIN: 30

FINAL CLOSED IN PERIOD

FINAL HYDROSTATIC PRESSURE

(G) 63

(H) 2289

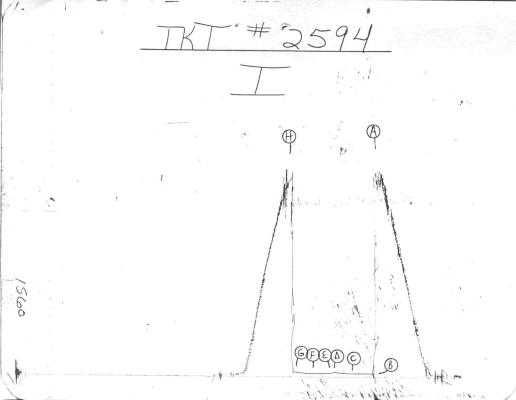
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WESTERN TESTING CO. INC. PRESSURE DATA

					KESSO	KL DII						
CUST		GEAR PETR						LEASI	ET #2	YAN		
MELL	: #1-	30	T	EST: 3	3			GEOLI	DGIST	: GERRY	ZORGER	?
ELEV	HOITA	(KB): 229	3			FORM	ATION:	CONG	LOMER	ATE		
SECT	ION:	30				TOWN	SHIP:	195				
RANG	E: 20	М	C	:YTHUO	RUSH			STATI	E: K	ANSAS		
GAUG	E SN #	156 0	Ri	ANGE:	4500			CLOCI	K: 1	2		
(A)	INITI	AL HYDROST	ATIC PR	ESSURE:	2342		PSI					
(B)	FIRST	INITIAL F	LOW PRE	SSURE:	44		PSI					
(0)	FIRST	FINAL FLO	W PRESS	URE:	44		PSI					
(D)	IHITI	AL CLOSED-	IN PRES	SURE:	65		PSI					
(E)	SECON	D INITIAL	FLOW PRI	ESSURE:	46		PSI					
(F)	SECON	D FINAL FL	OW PRES	SURE:	46		PSI					
(G)	FINAL	CLOSED-IN	PRESSU	RE:	63		PSI					
CHO	FINAL	HYDROSTAT	IC PRES	SURE:	2289	i.	PSI					
WELL	TEMPE	RATURE:			117		'F					
OPEN	TOOL:	6:00 P.M.										
				TIME -	GIVE	N TI	ME - AC	CTUAL				
FIRS	T FLOW	PRESSURE:		30	MI	N 30		MIH				
IHIT	IAL CL	OSED-IN PR	ESSURE:	30	MI	N 27		MIN				
SECO	ND FLO	W PRESSURE	:	30	MI	N 30		MIN				
FINA	L CLOS	ED-IN PRES	SURE:	30	MI	Н 30		MIH				
				PRES	SURE	BREAK	NWOO					
	FIRS	T FLOW	INITIA	L SHUT-	IN	SECO	ND FLOW	4 1	FINAL	SHUT-IN		
PT	MIH	PRESSURE	MIH	PRESSU	IRE	MIH	PRESSU	JRE I	MIN	PRESSURI	E	
1	. 0	44	0		44			46	0	41	6	
2	5	44	3		45	5		46	3	4	7	
3	10	44	6		46	10		46	6	4:	В	
	45								_			

	FIRS	T FLOW	INITIAL SHUT-IN		SECO	ND FLOW	FINAL SHUT-IN		
PT	MIH	PRESSURE	MIH	PRESSURE	MIH	PRESSURE	MIN	PRESSURE	
1	. 0	44	0	44	0	46	0	46	
2	5	44	3	45	5	46	3	47	
3	10	44	6	46	10	46	6	48	
4	15	44	9	48	15	46	9	49	
5	20	44	12	50	20	46	12	50	
6	25	44	15	52	25	46	15	51	
7	30	44	18	55	30	46	18	53	
8			21	58			21	56	
9			24	61			24	59	
10			27	65			27	61	
11							30	63	
12									



TKT # 2594 Below Straddle