

WESTERN TESTING CO., INC. FORMATION TESTING TICKET

No

13862

Eff. Pay____ PHONE (316) 262-5861 Elevation P. O. BOX 1599 Formation. WICHITA, KANSAS 67201 ___Date_ __Customer Order No_ District_ COMPANY NAME ADDRESS LEASE AND WELL NO. ___COUNTY__ STATE ____Twp___ _No. Copies Requested_ Co. Name Address Mail Charts To_ No. Copies Requested_ Address Formation Test No. ____ Interval Tested from__ ft to _ft. Total Depth_ ft. Packer Depth____ __ft. Packer Depth_ _ft. Size_ Packer Depth____ Size _in. Packer Depth___ ft. Size in. Depth of Selective Zone Set_ Top Recorder Depth (Inside) ft. Recorder Number___ __ Cap.__ Bottom Recorder Depth (Outside) ft. _ Cap__ Recorder Number Below Straddle Recorder Depth Recorder Number___ Drilling Contractor____ Drill Collar Length_ _ I. D. in. Mud Type____ Weight Pipe Length___ _Viscosity____ _ I. D. I. D. Weight Water Loss_ Drill Pipe Length_ ft. Tool Size Chlorides___ Test Tool Length_ P.P.M. Serial Number___ Jars: Make_ Anchor Length___ __ft. Size_ Did Well Flow?_____ Reversed Out____ in. Bottom Choke Size____ Surface Choke Size____ in. Main Hole Size____ in. Tool Joint Size____ Blow:__ Recovered ft. of Recovered____ Recovered ft. of Recovered_ ft. of_ Recovered Remarks:__ A.M. A.M. A.M. Time On Location_ P.M. Time Pick Up Tool___ Time Off Location_ P.M. A.M. A.M. Time Set Packer(s)_ Maximum Temperature. P.M. Time Started Off Bottom_ Initial Hydrostatic Pressure(A) ____P.S.I. __P.S.I. to (C)__ P.S.I. Initial Closed In Period Minutes_ P.S.I. (E) __P.S.I. to (F)_ Final Closed In Period . (G) P.S.I. Final Hydrostatic Pressure ··········(H)_ P.S.I. COMPANY TERMS FIELD INVOICE Open Hole Test 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. Misrun Straddle Test Jars All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred Selective Zone for collection will be added to the original amount. Safety Joint Standby Test Approved By_ Evaluation Signature of Customer or his authorized representative Extra Packer Circ. Sub. Mileage Western Representative_ Fluid Sampler Extra Charts Insurance TOTAL

WESTERN TESTING COMPANY SUBSURFACE PRESSURE SURVEY

and the same

DATE: 3/25/83 TICKET #13862 CUSTOMER: WILLIAM G. ASH DIL & GAS LEASE: HOWEY-ASH WELL: 1 TEST: 1 GEOLOGIST: L.E. CARTER ELEVATION (KB): 1291 FORMATION: ARBUCKLE SECTION: 22 TOWNSHIP: 295 RANGE: 3E COUNTY: BUTLER STATE: KANSAS GAUGE SN #13265 RANGE: 3975 CLOCK: 12 INTERVAL TEST FROM: 3246 FT TO: 3254 FT TOTAL DEPTH: 3254 DEPTH OF SELECTIVE ZONE: FT PACKER DEPTH: 3241 FT SIZE: 6 3/4 IN PACKER DEPTH: 3246 FT SIZE: 6 3/4 IN PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN DRILLING CONTRACTOR: REYNOLDS MUD TYPE: CHEMICAL VISCOSITY: 42 WEIGHT: 9.9 WATER LOSS (CC): 11.2 CHLORIDES (P.P.M.): 2200 JARS - MAKE: SERIAL NUMBER: DID WELL FLOW? NO REVERSED OUT? NO DRILL COLLAR LENGTH: 59 FT I.D.: 2.25 IN WEIGHT PIPE LENGTH:

DRILL PIPE LENGTH:

TEST TOOL LENGTH:

ANCHOR LENGTH:

8

FT

TOOL SIZE:

5.5

IN

SURFACE CHOKE SIZE:

3/4

MAIN HOLE SIZE:

7.7/8

IN

TOOL JOINT SIZE:

4.5 XH IN BLOW: STRONG BLOW THROUGHOUT TEST.

RECOVERED:	1080		FT.	OF:	SALT	WATER	55000	PPM
RECOVERED:			FT	OF:				
RECOVERED:			FT	OF:				
RECOVERED:			FT	OF:				
RECOVERED:		5.	FT	OF:				
RECOVERED:			FT	OF:				
RECOVERED:			FT	OF:				
RECOVERED:			FT	OF:				
RECOVERED:			FT	OF:				

REMARKS:

TIME SET PACKER(S): 2:45 AM			TIME	STA	ARTED	OFF	BOT	TOM:	5:0	MA 0	
WELL TEMPERATURE: 115 'F											
INITIAL HYDROSTATIC PRESSURE:				(A)	1682		PSI				
INITIAL FLOW PERIOD	MIN:	30		(B)	61		PSI	TO	(C)	218	PSI
INITIAL CLOSED IN PERIOD	MIN:	27		(D)	1277		PSI				
FINAL FLOW PERIOD	MIH:	30		(E)	175		PSI	TO	(F)	336	PSI
FINAL CLOSED IN PERIOD	MIH:	36		(G)	1256		PSI				
FINAL HYDROSTATIC PRESSURE				(H)	1660		PSI				

WESTERN TESTING COMPANY

	PRESSU	RE DATA		
DATE: 3/25/83			TICKET #138	862
CUSTOMER: WILLIAM G. ASH	RTI & GAS		LEASE: HOW	JEY-ASH
WELL: 1	TEST: 1			L.E. CARTER
ELEVATION (KB): 1291	1231: 1	FORMATION:		
SECTION: 22		TOWNSHIP: 2		
	COUNTY: BUTL			ISAS
RANGE: 3E			CLOCK: 12	15115
GAUGE SN #13265	RANGE: 3975		CLOCK: 12	
(A) INITIAL HYDROSTATIC	PRESSURE: 1682	PSI		
(B) FIRST INITIAL FLOW P	RESSURE: 61	PSI		
(C) FIRST FINAL FLOW PRE	SSURE: 218	PSI		
(D) INITIAL CLOSED-IN PR	ESSURE: 1277	PSI		
(E) SECOND INITIAL FLOW	PRESSURE: 175	PSI		
(F) SECOND FINAL FLOW PR	ESSURE: 336	PSI		
(G) FINAL CLOSED-IN PRES	SURE: 1256	PSI		
(H) FINAL HYDROSTATIC PR	ESSURE: 1660	PSI		
WELL TEMPERATURE:	115	' F		
OPEN TOOL: 2:45 AM				
	TIME - GIVE	N TIME - ACT	UAL	
FIRST FLOW PRESSURE:	30 MI	N 30 M	IH	
INITIAL CLOSED-IN PRESSUR	E: 30 MI	N 27	IN	
SECOND FLOW PRESSURE:	30 MI	N 30 M	IIN	
FINAL CLOSED-IN PRESSURE:	45 MI	И 36 м	IN	
	PRESSURE	BREAKDOWN		
FIRST FLOW INIT	IAL SHUT-IN	SECOND FLOW	FINAL	SHUT-IN
PT MIN PRESSURE MIN	PRESSURE	MIN PRESSUR	E MIN	PRESSURE
1 0 61	0 218	0 17	5 0	336
2 5 70	3 1241	5 19	2 3	760

	FIRS	T FLOW	INITIA	L SHUT-IN	SECO	ND FLOW	FINAL	SHUT-IN
PT	MIN	PRESSURE	MIH	PRESSURE	MIH	PRESSURE	MIH	PRESSURE
1	0	61	0	218	0	175	0	336
2	5	70	3	1241	5	192	3	760
3	10	100	6	1257	10	219	6	1239
4	15	131	9	1266	15	251	9	1245
5	20	167	12	1270	20	288	12	1251
6	25	198	15	1272	25	311	15	1253
7	30	218	18	1274	. 30	336	18	1255
8			21	1275			21	1256
9			24	1276			24	1256
10			27	1277			27	1256
11							30	1256
12							33	1256
13							36	1256
1 4								

DST-1