

STATE OF COLORADO  
OIL AND GAS CONSERVATION COMMISSION  
DEPARTMENT OF NATURAL RESOURCES

RECEIVED

OCT 12 1989

COLO. OIL &amp; GAS CON. COMM.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR RE-ENTER AND OPERATE			5. LEASE DESIGNATION AND SERIAL NO. FEE LEASE
1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>RE-ENTER</b> <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			7. UNIT AGREEMENT NAME N/A
2. OPERATOR <b>UNION PACIFIC RESOURCES COMPANY</b> <b>P.O. BOX 7 - MS 3407</b> <b>ADDRESS: FORT WORTH, TEXAS 76101-0007</b> <b>CITY: STATE: ZIP:</b>			8. FARM OR LEASE NAME <b>UEHLING 44-11</b>
3. PHONE NO. <b>(817) 877-7956</b>			9. WELL NO. <b>#1</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface <b>600' FSL &amp; 1000 FSL</b> At proposed Prod. zone <b>TO BE DRILLED AS A STRAIGHT HOLE</b>			10. FIELD AND POOL, OR WILDCAT <b>WILDCAT-MORROW</b>
13. DISTANCE, IF LESS THAN 200 FT. FROM ANY OCCUPIED BLDG. PUBLIC ROAD, ABOVE GROUND UTILITY LINE OR RAILROAD (SHOW FOOTAGES ON SURVEY PLAT) <b>N/A</b>			11. QTR. QTR. SEC. T.R. AND MERIDIAN <b>SESE 11-17S-42W</b>
14. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. Also to nearest drlg. line, if any: <b>600'</b>		15. NO. OF ACRES IN LEASE* <b>640</b>	16. NO. OF ACRES AND/OR DRILLING UNIT ASSIGNED TO THIS WELL <b>40</b>
17. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. <b>NONE</b>		18. PROPOSED DEPTH <b>5500'</b>	19. OBJECTIVE FORMATION <b>MORROW</b>
20. ELEVATIONS (Show whether GR or KB) <b>3946' GR</b>		21. DRILLING CONTRACTOR <b>MURFIN DRILLING (316) 267-3241</b>	22. APPROX. DATE WORK WILL START <b>UPON APPROVAL</b>

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	400'	300 sxs (to surface)
7-7/8"	5-1/2"	15.5#	5500	250 sxs

24. IS SURFACE OWNER ALSO THE MINERAL OWNER? YES ☐ NO ☒  
If NOT surface bond must be on file or copy of surface agreement must be furnished.  
If irrigated land, surface bond of \$5000 is required.

FIRST WELL IN THIS SECTION

\*DESCRIBE LEASE BY QTR. QTR., SEC., TOWNSHIP., RING.

LEASE = UNION PACIFIC RAILROAD = 640 ACRES = SECTION 11

PLEASE FILL IN APPROPRIATE CODES:

OPER. NO. **91100**DRLR. NO. **61650**FIELD NO. **99999**

LEASE NO. \_\_\_\_\_

FORM CD. **MRRW**

PLEASE CONSIDER FUTURE TRANSMITTALS CONFIDENTIAL

25.

PRINT **JOY L. PROHASKA**SIGNED *J. Prohaska* TITLE **REGULATORY ANALYST** DATE **10-11-89**

This space for Federal or State Use

PERMIT NO. **89-881**APPROVAL DATE **OCT 12 1989**EXPIRATION DATE **FEB 11 1990**APPROVED BY *B. Bicknell*TITLE **Director**DATE **OCT 12 1989**

CONDITIONS OF APPROVAL, IF ANY:

*Upon abandonment, set a 50 sack isolation plug at the top of the Permian, in addition to other plugs required by OGCC*

See Instructions On Reverse Side

A.P.I. NUMBER

**05 061 6543**



# FORMATION

# TEST

# REPORT

Sugar

SESE

PI is reporting

SWSW

please correct



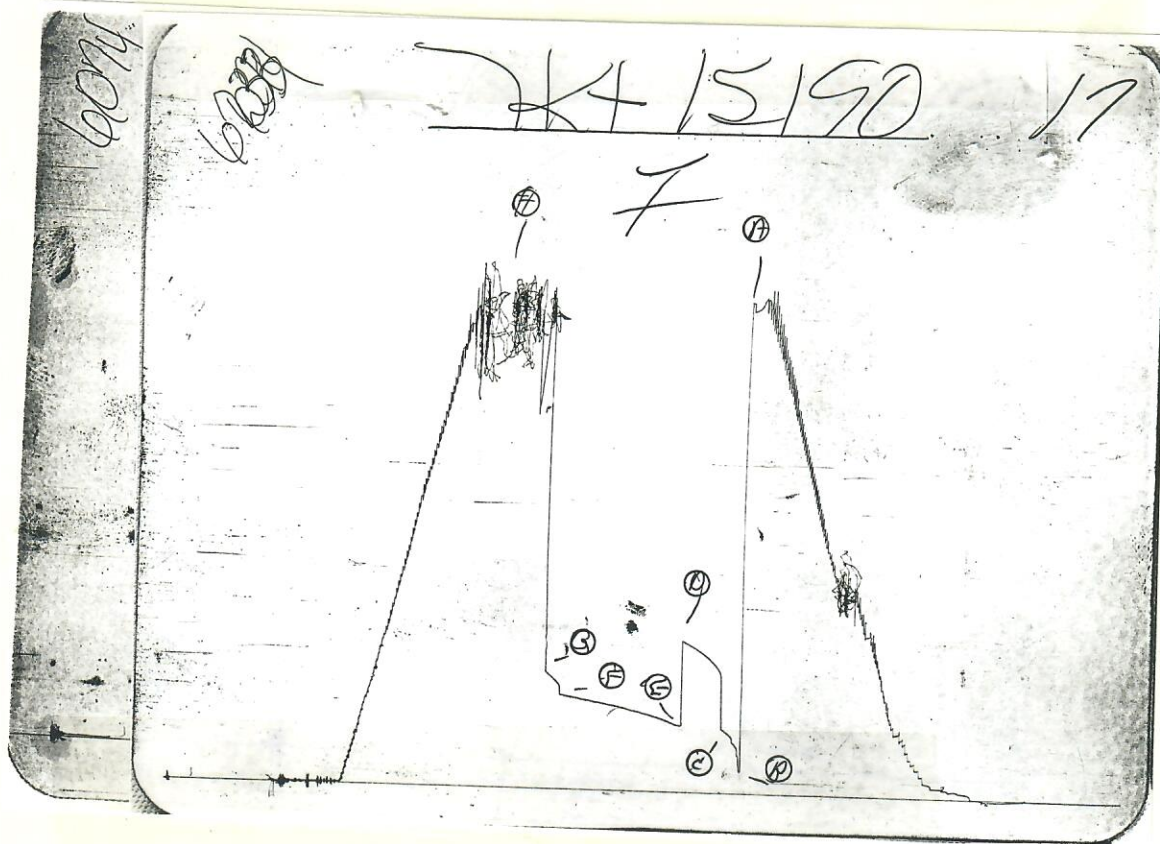
J  
10/21/91

Home Office:

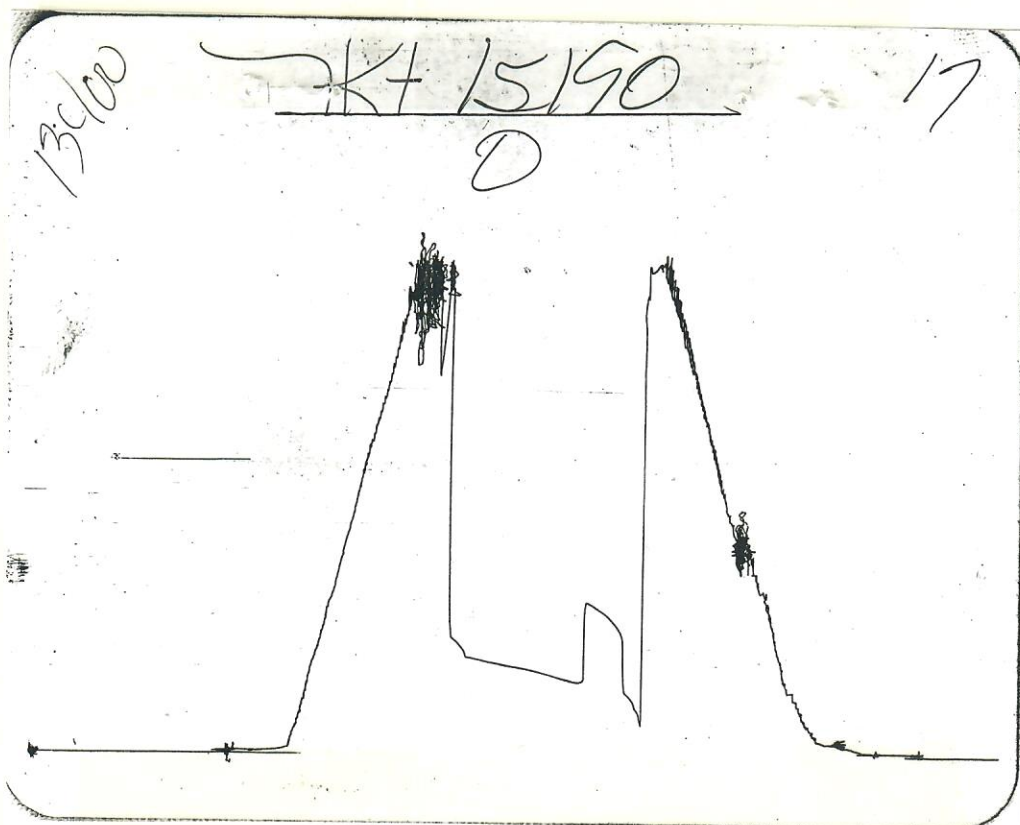
Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

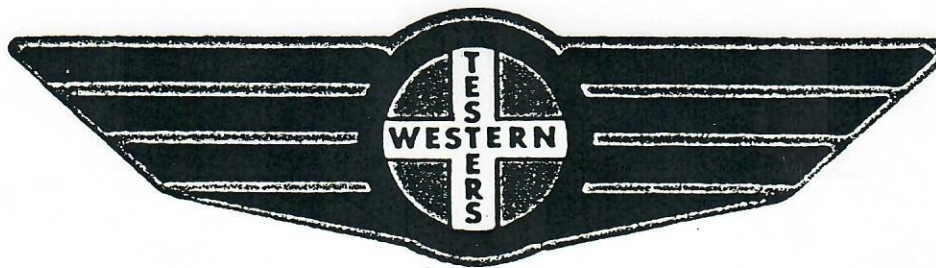


Inside Recorder



Outside Recorder

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861



WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 10/27/89 TICKET : 15190  
CUSTOMER : UNION PACIFIC RESOURCES COMPANY LEASE : EUHLING 41-11  
WELL : 1 TEST: 1 GEOLOGIST : COOPER  
ELEVATION : 3946 GS FORMATION : MORROW  
SECTION : 11 TOWNSHIP : 17S  
RANGE : 42W COUNTY : KIOWA STATE : COLORADO  
GAUGE SN# : 6233 RANGE : 4000 CLOCK : 12

INTERVAL FROM : 5057 TO : 5162 TOTAL DEPTH : 5290  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 5052 SIZE : 6.75  
PACKER DEPTH : 5057 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : MURFIN RIG 22  
MUD TYPE : CHEMICAL VISCOSITY : 51  
WEIGHT : 9.1 WATER LOSS (CC) : 8.0  
CHLORIDES (PPM) : 6000  
JARS-MAKE : WTC SERIAL NUMBER : 430  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 581 FT I.D. inch : 2.20  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 4447 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 29 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 105 FT ANCHOR SIZE : 5.50  
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75  
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5XH

BLOW COMMENT #1 : INITIAL FLOW PERIOD WEAK BLOW INCREASED  
BLOW COMMENT #2 : TO BOTTOM OF BUCKET IN 12 MINUTES.  
BLOW COMMENT #3 : FINAL FLOW PERIOD OPENED WEAK-INCREASED  
BLOW COMMENT #4 : TO BOTTOM IN 16 MINUTES.

RECOVERED : 183 FT OF: MUD  
RECOVERED : 797 FT OF: MUDDY WATER-10%MUD;90%WATER  
RECOVERED : 0 FT OF: CHLORIDES 24000 PPM

Total Barrels Fluid = 8.33  
Total Fluid Prod Rate = 114.21 BFPD  
Indicated Wtr Rate = 83.81 BWPD

REMARK 1 :  
REMARK 2 :  
REMARK 3 :  
REMARK 4 :

SET PACKER(S) : 2:00 PM TIME STARTED OFF BOTTOM : 4:25 PM  
WELL TEMPERATURE : 154  
INITIAL HYDROSTATIC PRESSURE (A) 2555  
INITIAL FLOW PERIOD MIN: 15 (B) 114 PSI TO (C) : 336  
INITIAL CLOSED IN PERIOD MIN: 33 (D) 801  
FINAL FLOW PERIOD MIN: 90 (E) 358 PSI TO (F) : 502  
FINAL CLOSED IN PERIOD MIN: 12 (G) 622  
FINAL HYDROSTATIC PRESSURE (H) 2505

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report

COMPANY : UNION PACIFIC RESOURCES COMPANY  
RIG : KIOWA-COLORADO  
FIELD : EUHLING 41-11  
WELL : 1  
DATE : 10/27/89  
GAUGE NO : 6233

OPERATIONAL COMMENTS

DATA NO.	REAL TIME HR:MM:SS	DELTA TIME HOURS	TEMP DEG F	DELTA P PSI
INITIAL FLOW PERIOD				
1	2:0:0	0.000	154.00	0.000
2	2:4:58	0.083	154.00	143.000
3	3:10:0	0.167	154.00	58.000
4	3:15:0	0.250	154.00	28.000
INITIAL SHUT-IN PERIOD				
5	3:18:0	0.300	154.00	303.000
6	3:21:0	0.350	154.00	34.000
7	3:24:0	0.400	154.00	23.000
8	3:27:0	0.450	154.00	18.000
9	3:30:0	0.500	154.00	14.000
10	3:33:0	0.550	154.00	14.000
11	3:36:0	0.600	154.00	18.000
12	3:39:0	0.650	154.00	18.000
13	3:42:0	0.700	154.00	11.000
14	3:45:0	0.750	154.00	8.000
15	3:48:0	0.800	154.00	11.000
FINAL FLOW PERIOD				
16	3:49:0	0.817	154.00	443.000
17	3:52:58	0.883	154.00	4.000
18	3:58:0	0.967	154.00	14.000
19	3:58:0	1.000	154.00	14.000
20	3:58:0	1.133	154.00	9.000
21	3:58:0	1.167	154.00	11.000
22	3:58:0	1.200	154.00	8.000
23	3:58:0	1.250	154.00	10.000
24	3:58:0	1.300	154.00	8.000
25	3:58:0	1.350	154.00	8.000
26	3:58:0	1.400	154.00	8.000
27	3:58:0	1.450	154.00	7.000
28	3:58:0	1.500	154.00	8.000
29	3:58:0	1.550	154.00	7.000
30	3:58:0	1.600	154.00	7.000
31	3:58:0	1.650	154.00	8.000
32	3:58:0	1.700	154.00	8.000
33	3:58:0	1.750	154.00	4.000
34	3:58:0	1.800	154.00	8.000
FINAL SHUT-IN PERIOD				
35	4:21:0	2.350	154.00	73.000
36	4:23:58	2.400	154.00	18.000
37	4:27:0	2.450	154.00	17.000
38	4:30:0	2.500	154.00	13.000



COMPANY : UNION PACIFIC RESOURCES COMPANY

WELL : 1  
GAUGE # : 6233  
DATE : 27/10/89

FIELD : EUHLING 41-11  
JOB # : 15190  
DEPTH : 5290  
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	2: 0: 0	0.000	114.000	154.00	0.000
3	2: 4:59	0.083	256.000	154.00	142.000
4	2:10: 0	0.167	311.000	154.00	55.000
5	2:15: 0	0.250	336.000	154.00	25.000
INITIAL SHUT-IN PERIOD					
6	2:18: 0	0.300	638.000	154.00	302.000
7	2:21: 0	0.350	672.000	154.00	34.000
8	2:24: 0	0.400	695.000	154.00	23.000
9	2:27: 0	0.450	714.000	154.00	19.000
10	2:30: 0	0.500	728.000	154.00	14.000
11	2:33: 0	0.550	742.000	154.00	14.000
12	2:36: 0	0.600	758.000	154.00	16.000
13	2:39: 0	0.650	771.000	154.00	13.000
14	2:42: 0	0.700	782.000	154.00	11.000
15	2:45: 0	0.750	790.000	154.00	8.000
16	2:48: 0	0.800	801.000	154.00	11.000
FINAL FLOW PERIOD					
17	2:49: 0	0.817	358.000	154.00	-443.000
18	2:52:59	0.883	362.000	154.00	4.000
19	2:58: 0	0.967	376.000	154.00	14.000
20	3: 2:59	1.050	390.000	154.00	14.000
21	3: 7:59	1.133	399.000	154.00	9.000
22	3:13: 0	1.217	410.000	154.00	11.000
23	3:18: 0	1.300	418.000	154.00	8.000
24	3:22:59	1.383	428.000	154.00	10.000
25	3:28: 0	1.467	436.000	154.00	8.000
26	3:33: 0	1.550	442.000	154.00	6.000
27	3:37:59	1.633	451.000	154.00	9.000
28	3:43: 0	1.717	458.000	154.00	7.000
29	3:48: 0	1.800	464.000	154.00	6.000
30	3:52:59	1.883	471.000	154.00	7.000
31	3:58: 0	1.967	478.000	154.00	7.000
32	4: 3: 0	2.050	484.000	154.00	6.000
33	4: 7:59	2.133	492.000	154.00	8.000
34	4:13: 0	2.217	496.000	154.00	4.000
35	4:18: 0	2.300	502.000	154.00	6.000
FINAL SHUT-IN PERIOD					
36	4:21: 0	2.350	574.000	154.00	72.000
37	4:23:59	2.400	592.000	154.00	18.000
38	4:27: 0	2.450	609.000	154.00	17.000
39	4:30: 0	2.500	622.000	154.00	13.000

WESTERN TESTING CO. INC.



FLUID SAMPLE REPORT

Date : 10/27/89

Ticket No. : 15190

Company : UNION PACIFIC RESOURCES COMPANY

Well Name & No. : #1 EUHLING 41-11

DST No. 1

County : KIOWA

State : COLORADO

Sampler No. : 2

Test Interval : 5057-5162

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Pressure in Sampler	130 PSIG	BHT	154	Deg F
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Total Volume of Sampler	: 3150	cc
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Total Volume of Sample	: 3100	cc
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Oil:	cc
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Water:	3100	cc
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Mud:	cc
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Gas:	cu ft
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Other:	cc
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RESITIVITY

Drilling Mud	4.0	@	48 F	Chloride Content	24000 ppm
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Mud Pit Sample	7.0	@	54 F	Chloride Content	6000 ppm
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Gas/Oil Ratio	Gravity	API @	Deg F
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Where was sample drained RIG

Remarks: