

ELMORE NO 1 COMPLETION REPORT

4375

- 1-1-63 Move in Bill Hey Drilling Co tools. Rig up. Bail mud. Drilling on two stage tool (Zero is 6 1/2' above bradenhead.)
- 1-2-63- Killed 2 stages ok, swabbed, drilling float. While shoe - Cleaned out & TD. Rec 8 bails of heavy mud. Bail 1 BOPH to 1.
- 1-3-63 Overnight filling 600' oil + 1/2 bails mud & water & let down @ 9. Rec 12.64 BO = overnight filling. Tests @ 10:45 = 1.41 BO } 3.59 BO
" " 11:45 = 1.69 BO } in 3 hrs
" " 12:45 = 1.09
@ 12:45 Bailed hole down. Recovered trace mud on bottom. "pretty well cleaned up". did acidize 1/4/63.
- 1-4-63 12hr Filling 513' NW, sub 11.28 BO to tank clean - no mud
500 req acid B-J Max 950# min 300#
in rates: 14 GPM @ 500#, 29 GPM @ 850#, 49 GPM @ 950
pressure drop: 950 to 700# 1", 625# 1/2", 575# 1/3", 525# 3/25", 250# 1/15", 0# 1/22"
Total load 12 Bbl acid + 103 BO, swab load. 11.28 Bbl.
recovered load @ 1:00 PM = 7'2" in tank 28.20 Bbl.
Sub tests OB 2 PM = 4" = 5.64 BO MW } 39.40 Bbl
3 PM = 4" = 5.64 BO MW } 17#
4 PM = 4" = 5.64 BO MW } All of it
5 " 5.64 BO MW
6 PM 5.64 BO MW
Ran bailer to bottom had one bailer of water. Shut down overnight.
- 1-5-63 12 hour filling 1600' (39 bbls) Bailed 15 bails water 26 gal acid or 9 BW and 31 BO or 24% water. To run rods and tubing.
- 2/9/63 POP
- 2/16/63 Barrel test 44" stroke 9 1/2 SPM 1 1/2" pump 19 min @ 66l 19% W or 6 1/2 BOP plus 19% W.
- 2/19/63 STATE TEST Pump 75 BO plus 17% W.

Sept 1966 DD, seedings & recomplete.

See →

DRIG DST. ISIP 1253/30

1125/60

WALTERS DRILLING CO.
ELMORE #1
C NE SW 17-17S-24W
Ness County, Kansas

Elmore #1 OWWO DD

Old T.D. 4395 (-1969)

Miss. Spergen 4385 (-1959)

5 1/2" casing at 4390 1/2 with 125 sx. 12-29-62

Shut down June 20, 1966

Was producing 6 BOPD plus 37 BWPD

4406 (+1980) TD

1/7 oil

14% oil

9-6-66

Move in Bill Hay cable tools.

Hole cleaned. Went to bottom with bit and bailer

Static fluid level - 2800' fluid in hole (1600' down)

Rigging up to swab. RTD 4395' = 4396' cable tools.

2800' FLUID

1/7 oil = 400' 2400'

9-7-66

Bailed hole down - swabbed off bottom

1st hour 5.80 BF app. 10% oil

2nd hour 4.56 BF app. 10% oil

3rd hour 3.42 BF app. 10% oil

Drilled deeper 5' - 4401' SD overnite

PRESS = .433 u

1039.20

.3680 for 35

4.00

9-8-66

Hole filled 1000' 12 hrs. Swabbed to bottom

29.71 BF - 2.5 BO plus 27.21 BW

Swabbing OB 1 pull per hour

1st hour 4.56 BF 90% water 10% oil

2nd hour 2.89 BF 90% water 10% oil

3rd hour 2.89 BF 90% water 10% oil

DD 4401-4406 - soft white "sand" Swab hole down

4:00-5:00 p.m. swab 2.28 BF 92% water

5:00-6:00 p.m. swab 2.28 BF 95% water SD overnite

147.20

1186.40

T.D. 4406

9-9-66

Hole filled 750' in 12 hours - Swabbed 2 BO and 19 BW

8:00- 9:00 swabbed 5.70 BF 95% water

9:00-10:00 swabbed 3.42 BF 89% water

10:00-11:00 swabbed 2.28 BF 89% water = 55 BFPD = 6 BO plus 49 BW

Acid 2500 gal. 15% inhibited

9-10-66

Left acid in hole overnight. Fluid level down 1200' or 3200' fluid in hole. Load is 60 Bbls. acid plus 103 BW = 163 BF Rec. load, then

11:00 Swabbed 31.42 BF 15% oil 85% water

12:00 31.42 BF 17% oil 83% water

1:00 23.12 BF

2:00 15.04 BF

3:00 15.04 BF 21% oil 79% water

4:00 11.40 BF 18% oil 82% water

5:00 5.70 BF

6:00 7.98 BF 19% oil 81% water

6:30 5.70 BF 23% oil 77% water

9-11-66

Shut down overnight. Hole filled 1500' fluid 12 hours. Swabbed

49.0 BF, 14 BO plus 35 BW or 28% oil 72% water

9:30-11:15 39.40 BF 22% oil 78% water

12:15 12.54 BF 26% oil 74% water

1:15 11.40 BF 25% oil 75% water

2:15 10.26 BF 25% oil 75% water

3:15 10.26 BF 25% oil 75% water

4:15 9.12 BF 23% oil 77% water

5:15 9.12 BF 29% oil 71% water

6:00 7.00 BF 24% oil 76% water

3200 fluid in hole
x 2.3 BFPD rec.
73.6 BF in hole

yield
8.0-10.0 BFPD

9-12-66

1700' fluid in hole 12 hours overnight. Bailer to bottom - clean
Run tubing.

9-13-66

Ran rods and POP.

4406
K.B 2426

-1980

OIL-WTR
CONTACT
-1980

CLARK T. SNIDER
Geological Engineer

October 8, 1971

Walters Drilling Co.'s
1 Elmore
C NE SW 17-17S-24W
Ness County, Kansas

REMEDIAL WORK REPORT

Oct. 7, 1971 - Hembre Well Service removed rods and bottom-hole pump; lowered tubing to bottom; found string 15' off bottom. Layed down 5 jts, found bad coupling - replaced; re-ran all tubing and added 10-foot sub

With bottom of tubing 5 ft. off bottom and perforations in tubing @ 4386', Acidized (Service Acid) down tubing the following procedure:

Pumped 100 gals. diesel fuel, 1500 gals. 28% HCl acid, 100 gals. diesel fuel, 14 bbls. lease water down tubing; closed-in tubing. Immediately switched to annulus and pumped lease-water: Acid into formation under vacuum.

Continued pumping down annulus @ 6 bbls./min; Had 96 bbls. in formation when hole loaded; continued pumping displacing 40 bbls. overflush @ 400 to 500 psig at 6 bbls./min. TREATMENT on vacuum 12 minutes after pumping stopped.

Changed 14 couplings on tubing; added 11 feet more tubing, setting tubing 4 feet off bottom, making perforations in tubing @ 4387 feet; 5½" @ 4390½, total depth (old) 4406

Old record : 15' mud anchor
 3' perforated nipple
 1' seating nipple
 1 - 4' sub
 1 - 6' sub
 1 - 10' sub

New record using the above: 15' mud anchor
 3' perforated nipple
 1' seating nipple
 1 - 4' sub

Replaced bottom-hole pump. re-ran rods and hung well on.

CLARK T. SNIDER

Clark T. Snider

DATE

DESCRIPTION OF WORK

REF. VO. NO

July 1971
Oct 1971

Fluid level test
Pulled rodless pump, worked with acid - 150 gal. acid 25%, replaced 14 cplgs. & 4 gts. tbg. Junked old pump & put in 2" x 1 1/2" x 12' BHD.

Dec. 1971
1972

May 1972

Replace bearing in SW pump & repair motor
Had storm. Tore SW deck off tank. Insurance covered damage of \$217³²
Repaired by McDonald Tank. Storm blew out Westinghouse 15 H.P. Motor.
Taken off for repair. Replaced by Louis Allen 15HP. # 338531012

Oct. 1972

Dec 1972

Jan. 1973

Fluid level shots
Burned out motor off SW pump. Junked 3 HP motor. ^{Appl 721411101}
(1-8) 3 HP motor burned up. Put on 5 HP motor and new pump plant.
Had electrician check problem. Thinks it is low voltage & when electrician goes off, all wells come on at once - not enough voltage & burns out motor.

July
Nov. 1973

Dec. 1973

Installed guard rails
Fluid level shots

Pulled & changed pump 12-6-73. Elec. motor out on SW pump. Purchased & set new 5 H.P. motor. (Bad ice storm) Pump stuck. 12-28-73. Had to pull again & put in another pump. All pumps in & out were 2" x 1 1/2" x 12' BHD
5 H.P. Electric Motor burned up. Junked it. Put on new 5 H.P. Appl Motor S# WT-5-184-T. Installed 1-Taylor Timer Complete w/ Battery & 2 Hour Clock on Chemical Pump.

1974
Jan.

Mar. 1

Humphrey added to Injection System (Dickman) Ownership
of Elmore in system established
Elmore owners reimbursed for 1/2 capital investment of 2370' of SW line
f/ to Elmore Tank Battery by Humphrey owners - see opposite side for copy.

Oct

Apr. 1976

4/20/76

11/76

12/76

1977
6/77

Fluid level shots
Fluid level shots
Pulled rods & pump. Put in 2" x 1 1/2" x 12' Pump. (\$450.00)
Pulled for tbg leak. tested tbg. Replaced 2.2 gts. see opposite side
Replaced 56 tbg. cplgs. (Humber)
Unhooked electric hookup from Dickman system and hooked up w/ Phelps
Pulled change pump. Put in 2" x 1 1/2" x 12' BHD (\$450.00). Put in Baker tbg.
Anchor Catcher (\$225.00)

< 1977

(4)

$2\frac{3}{8}$ Tubing
 136 Jts a =
 7-30-1978 = 54 Stock 8 Stock min
 Total Flow 12.48 oil no water
 Dickman #3
 432.9 Pump February 12-1
 $2\frac{1}{2}$

$2\frac{7}{8}$
 141 Jts a
 7-30-1978 = 64 Stock - $9\frac{1}{2}$ Stock min
 Total Flow 169 BB - oil 15.21 = Water 153.7
 Dickman #6
 4399.38 October 4-1978
 $2\frac{1}{2} \times 2$

$2\frac{3}{8}$
 143 Jts a
 7-30-1978 = 48 Stock $12\frac{1}{2}$ Stock min
 Total Flow 103 BB - oil 6.18 Water 96.4
 Elmore #1
 4360.04 Pump June 13-1
 $1\frac{1}{2}$

$2\frac{7}{8}$
 95 Jts a
 7-31-1978 = 54 Stock 15 Stock min
 Total Flow 332 BB oil 1328 = Water 318.7
 T.D 4473 = 1611 Flow in well (Pump)
 Jilly #1
 2973.51 Pump June 3-1
 $2\frac{1}{2} \times 2\frac{1}{4}$ Tubing

$2\frac{7}{8}$ = 125 Jts a
 7-31-1978 = 76" Stock 15 Stock min
 Total Flow 393 BB - oil 786 Water 325.1
 T.D 4460
 Jilly #2
 3855 Pump February 18-
 $2\frac{1}{2} \times 2\frac{1}{4}$ Tubing
 (Flow Level)
 (F.T. Seatto 4344-46)

September 18 - 1979
Walter Drilling Co. Inc.

③

2 $\frac{3}{8}$ Tubing Dickerson #3
136 Jts @ 4329 1 $\frac{1}{2}$ Pump February 12 - 1976
54 Stock 8 Stock min
8-28-79 Jts @ 4329 10.00 = oil 10.00 - No Water

2 $\frac{7}{8}$ Tubing Dickerson #6
141 Jts @ 4399.38 = 2 $\frac{1}{2}$ x 2' Pump October 4 - 1976
52 Stock 10 Stock min
8-28-79 Total Flow 173 = oil 8.65 = Water 164.

2 $\frac{3}{8}$ Tubing X Elmore #1
143 Jts @ 4360.04 = 1 $\frac{1}{2}$ Pump October 23 - 1977
48 Stock = 12 $\frac{1}{2}$ Stock min
8-31-79 Total Flow 103 oil 6.18 = Water 96.82

2 $\frac{7}{8}$ Tubing Jilly #1
95 Jts @ 2973.51 2 $\frac{1}{2}$ x 2 $\frac{1}{4}$ Tubing Pump June 3 - 1976
54 Stock = 15 Stock min
T.D. 4473
8-31-79 Total Flow 360 - oil 10.80 = Water 349.20

2 $\frac{7}{8}$ Tubing Jilly #2
125 Jts @ 3855 = 2 $\frac{1}{2}$ x 2 $\frac{1}{4}$ Tubing Pump February 18 - 1976
76 Stock 15 Stock min
8-31-79 Total Flow 412 - oil 8.24 = Water 403.76

2 $\frac{3}{8}$ Tubing Stewart #1
142 Jts @ 4329.59 1 $\frac{1}{2}$ Pump Dec 17 - 1977
52 Stock 14 Stock min
8-28-79 Total Flow 234 = oil 16.38 = Water 217.62

October 1980

Walter Drilling Co Inc.

3/8 Tubing	Wickman #3	
136 Jts @ 4329	1 1/2 Pump	February 12-1975
54 Struck	8 Struck min	
1-28-80		
Total Fluid = 10.00 oil 10.00 - no water		
7/8 Tubing	Wickman #6	
141 Jts @ 4399.38	= 2 1/2 X 2' Pump	October 4 1976
28-805 2 Struck	10 Struck min	
Jts Fluid 176	= oil 8.80 - water 167.00	
3/8 Tubing	X Elmore #1, ^{Drill} _{min}	October 23 1978
143 Jts @ 4360.04	= 1 1/2 Pump	
-29-80 =	48 Struck = 12 1/2 Struck min	
Total Fluid 103 = oil 5.15 = water 97.85		
1/8 Tubing	Jilley #1	June 3-1977
95 Jts @ 2973.51	= 2 1/2 X 2 1/4 Tubing Pump	
54 Struck	= 15 Struck min	
2-30	Total Fluid 360.06 = oil 9.00 = water 251.00	
7/8 Tubing	Jilley #2	11-28-1979
25 Jts @ 3855	= 2 1/2 X 2 1/4 Tubing Pump	
76 Struck	15 Struck min	
-30-80		
Total Fluid = 412 = oil 8.24 = water 403.76		
2 3/8 Tubing	Stewart #1	
142 Jts @ 4329.59	= 1 1/2 Pump	Oct 4-1977
52 Struck	14 Struck min	
9-29-80		
Total Fluid 227 = oil 6.81 = water 220.19		

Waters Well Co Inc.

	1	2	3	4	5	6
	Oct 11 - 1982					
	Tubing			Dickman #1		
1	2 3/8					Pull Tubing
2	110 gts	3422.83	=	1 1/2 Pump	=	12-7 = 1981
3						
4	54	Stocks		15	Stock min	
5						
6	9-30	82	Total Flow	210 = oil	10.50 =	Water 199.50
7	2 3/8			Dickman #2		
8	114 gts	4401 =	1 1/2	Pump	=	2-24 = 198
9						
10	54	Stocks		15 1/2	Stock min	
11						
12	9-30	Total Flow	137 = oil	10.96 =	Water	126.04
13	2 3/8			Dickman #3		
14	136 gts	4329 =	1 1/2	Pump	February 12-1970	
15						
16	54	Stock		7.5	Stock min	
17						
18	9-30 =	Total Flow	6 =	oil 6	=	no water
19	2 7/8			Dickman #6		
20	141 gts	4399 =		2 1/2 X 2	Pump	1-31-1981
21						
22	54	Stocks		10.5	Stock min	
23						
24	Total Flow	160 =	oil	6.40 =	Water	153.60
25				Elmore #1		
26	2 3/8					
27	143 gts	4360.04 =	1 1/2	Pump		
28						
29	48	Stocks		10	Stock min	
30						
31	9-29	Total Flow	111 =	oil 5.55	Water	105.45
32	2 3/8			Elmore #1		
33	144 gts	4490		1 1/2	Pump	5-7-81
34						
35	44	Stock		10	Stock min	Replace
36						
37	Pump off		10 in	20.00	BB off	Water to 15.00
38	2 3/8			Amodeo #1		
39	139 gts	4415		1 1/4	Pump	10-16-198
40						
41	24	Stock	=		2.75	Water
42						
43	Gas Well shut in					580 Shut in
44	Pump on Gas Well Monday 18 = off 21)					Press.

JUL 10 1996

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STATEMENT

ELMORE #1
LEASE

06-13-96

Tubing and anchor stuck in hole. Spotted 500 gals. 15% NE - DFE down tubing and up on back side - let set 1-1/2 hours - worked tubing about 1 hour - released - came out of hole - had 19 bent joints - shut down.

06-14-96

Teko Pipe Testing tested tubing - blew 0 - sand pumped hole 3 times - ran joint tail pipe - packer - seating nipple & tubing spotted 637 gals. 15% HCL, 1.5 gals AI-190, 2.25 gals., IC-10 gals., 1 gal. IC-9, 112.5 gals. Pentol 150 & coupler, 7.5 gals., IC-30 acid-pulled up-set packer at 4360' max pressured 600# 2-2-1/2 bpm ISIP 100#-vacuum 90 seconds - fluid down 800' in 45 mins. -swabbed back 26 of 34 bbl load-shut down weather.

06-17-96 - 900' fillup - show of oil - swabbed - 1-1/2 hour swabbed 80 bbls fluid - cutting 5% oil and mud - fluid level 1500' at the end - pulled tubing and packer - ran mud anchor 18' - 3' perf. sub - 1 joint - anchor - then the rest of tubing - rods- put well to pumping.