

District South Central Kansas Lease Fred Couch Acres 80.5 Well No. 2
State Kansas County Cowley Sec. 13 Township 30S Range 5E AFE No. 265
Well Location NE/4 NW/4 SE/4 Selected by Whom Vic E Baum Elevation 1319 DF
Reference Stake 2"x7'LP, 80' SE of well at rotary derrick guy ln hold-dwn

Figure 1 shows a schematic diagram of a 10x10 grid representing a 1000m x 1000m area. The grid is divided into four quadrants by a central vertical line and a horizontal line. The top-left quadrant is labeled '1000m x 1000m' and contains a small circle. The top-right quadrant is labeled '1000m x 1000m' and contains a small circle. The bottom-left quadrant is labeled '1000m x 1000m' and contains a small circle. The bottom-right quadrant is labeled '1000m x 1000m' and contains a small circle. The grid is labeled '1000m' on the top and left sides, and '1000m' on the bottom and right sides.

C. O. Commenced 7/31/40

C. O. Completed: 8/17/40

Days C. O. 18

CT

[illegible]

Date		Size	Wt.	Thds.	MAKE	Pipe Seat (From Derrick Floor	Csg. (Top) Cellar Below D. Floor	Casing Mea. Less Thds.	Landing Nipple Above R. T. T.
7/13/40	13 3/8	54	8	Smls C2	90.39	7.13	83.26	18.10	
7/23/40	7 L	22	8R	Nat'l Smls*	2761.05	5.47	2755.58	?	

Remarks: *7" string new 88 pcs; 13 3/8 = 3 pcs

Date		Size	Sacks Used	Kind	Plug Left At	Cement Found in Pipe At	Top of Cement Behind Casing	Cemented By	REMARKS:
7/13/40		13 3/8	80	Incor	?	86		HOWCO	
7/23/40		7	50	Incor	2772	?		HOWCO	
8/ 2/40		7	51	See below		2714			See below Is Bottom of Casing Cemented?

Remarks: HOWCO Squeeze retainer Type H run on tbg & set at 2725; closed cir jars & applied 1200# on csg for 15 min. Squeezed below retainer w/ 1 sx aquagel & 50 sx of 4% AG slurry, finishing w/ 600# pressure after displacing w/ 376 gals. in tbg

RYAN CONSOLIDATED CORPORATION LINER RECORD

Date	Size	Wt.	Length	SET		Top of Liner Up Inside Casing	Cemented (Sacks)	REMARKS: (Give Details as to Shoes, Perforations, Hanger, etc., and how placed)
				From	To			
7/13/40	8 1/2	300	120	120	120	120	120	120

Remarks: 120' string new 8 1/2 inch; 13 3/8 = 3 pgs

BRADENHEAD RECORD

Date	Make	Size	Type	Kind	OUTLETS			Top Below Derrick Floor	REMARKS:
					No.	Size	Thd.		
7/13/40	American Mfg Co	13 3/8 x 7	120A	FS	2	3	8	5.47	120'

INITIAL SHOT RECORD

Date	Number Quarts	SHELLS		Top of Shot	Bottom of Shot	Length Anchor	Make of Bomb	Shot By	REMARKS:
		No.	Size & Diam. or Dump						
7/31/40	200SNG	Dumped	2786	2819 1/2	1 1/2'	Calseal	Zero Hr set 21 1/2 Hrs	Amer. Gly Co	Wtr showed up during Potential 20 hrs 41 min. after shot

INITIAL ACID RECORD

Date	Quantity (Gallons)	Formula	Acidized By	Formation Treated		Pump Pressure	
				From	To	Start	Finish
7/13/40	18.10	7.13	2786	120	120	120	120

WORK SUBSEQUENT TO COMPLETION

(Date of Work Only)

Shots	Drilled Deeper	Cleaned Out	Cemented (P. B.)	Acidized	Abandoned
120'	120'	120'	120'	120'	120'

GENERAL REMARKS: HOWCO pmpd plg to btm 8/1/40. See "Remarks" reverse side for squeeze job. 7/15/40- Cementing, btm hole: Dumped 6 sx calseal frm 2821-2811.

Production Test Record

Date First Production

COMPLETION (1) COMPLETION (2) POTENTIAL (3) ROUTINE (4)	Date	Corrected Gravity at 60 Degrees	PRODUCTION			Static Pres.	Draw Down Btm. Hole Pres. Bomb	FLOWED		SWABBED	METHOD PUMPED							
			Barrels		Cu. Ft. Gas			Pressure (Pounds)			Lgth. Stroke	SPM	Size Tbg.	Size Rds.	Plgr. Diam.	Pump Cap. 24 Hrs Less Stretch	Duration Hours	
			Oil	Water				Csg.	Tbg.									
	8/13/40		0	42.00								30	23	2	5&3	1 3/4	150	8
	13		21.00	21.00	Pmpd w/ Unit #32													8
	13		39.00	17.00														8
	14		8.00	5.00	Pmpd w/ Unit #32													2
	8/1/40		30.80	0						X		24	31	2	5&3	1 3/4	95	1
	10/7/40		181.14															8
	10/7/40	41API	401.00			895	DD					21	27 1/2	2	5&3	1 3/4		B/D
	3/18/41		43.00	30.80	13.8	322/1						20	16	2	5&3	1 3/4		21
	19		34.81	20.00	16.4	299/1												24

LEGEND
 (1) Natural, Before Acid or Shot
 (2) After Acid or Shot
 (3) Officially Reported
 (4) Routine

(1) Natural, Before Acid or Shot
 (2) After Acid or Shot
 (3) Officially Reported
 (4) Routine

WELL RECORD--(Continued)

TORPEDO RECORD

5)

DATE	QUARTS	LIQUID OR GELATINE	FROM	TO	SHELLS			ANCHOR	BOMB	OIL		WATER	
					NO.	SIZE	LENGTH			BEFORE	AFTER	BEFORE	AFTER
7/15/40	200	8.4	2700	2810	2	1.0	1.0	1.0	200	(See 2700)			

6) SWABBING RECORD

FROM	TO

(7) PLUG BACK RECORD

DATE	MATERIAL USED	FROM	TO	REMARKS
8/15/40	Calson, 6 in 2011	2011		Concrete - 100 hole

8) PACKERS

(9) CLEAN-OUT RECORD

DATES	DEPTHS	BAILER OR TOOLS	RESULTS

10) DEFLECTION

DEPTH	ANGLE	V. CORR.

(11) PLUGGING RECORD

START	19	FINISH	19
GIVE RECORD OF PLUGS DRIVEN, CEMENT, ROCK, ETC., MUD AND HOW PLACED.			
AND ALL PIPE LEFT IN HOLE. (USE NEXT PAGE IF NECESSARY.)			

(CONTINUED)

WELL RECORD (Continued)

WELL NO. 2

DATE	NO. OF FEET	TO	FROM	FORMATION	DATE	NO. OF FEET	TO	FROM	FORMATION
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(12) ADDITIONAL INFORMATION

Rotary lost returns at 2828' (12" and lost)

Cored- 2765 to 2766 (Full Recovery); Core Analysis and Interpretation 2770 to 2798 by Core Laboratories, Inc., Dallas, Texas, August 2, 1940, their file D-322.

(13) MATERIAL LOST IN HOLE

(14)

WELL LOG

FORMATION	FROM	TO	NO. OF FEET	DRILL TIME	FORMATION	FROM	TO	NO. OF FEET	DRILL TIME
Collar	0	7	7		Shale & shells	2695	2696	1	
Surface clay, lime	7	22	15		Sandy shale	2696	2700	4	
Lime	22	122	100		Shale	2700	2705	5	
Shale	122	141	19		Shale & sand (Cored)	2705	2708	3	
Lime	141	200	59		SLM Correction at				
Brkn lime	200	480	280		2727'				
Shale & shells	480	730	250		TD, Rotary Hole		2736		
Brkn lime	730	790	60		Sand, soft gray	2736	2821	85	
Shale & shells	790	840	50		Flagged Jack	2821	2812	9	
Lime	840	885	45						
Brkn lime	885	920	35						
Lime	920	930	10						
Brkn lime	930	1010	80						
Shale	1010	1115	105						
Lime	1115	1156	41						
Lime & shale	1156	1280	124						
Shale & shells	1280	1470	190						
Lime	1470	1500	30						
Shale & shells	1500	2152	652						
Lime (KC, odor gas)	2152	2440	288						
Brkn lime & shale	2440	2446	6						
Brkn lime	2446	2505	59						

RYAN CONSOLIDATED PETROLEUM CORPORATION



New Well Completion Record and Related Data

District S. Central Kans. Lease U.S. Touch Acres 80 Well No. 2
 State Kans. County Comfrey Sec. 13 Township 30 Range 5 AFE No. 265
 Well Location _____ Selected by Whom _____ Elevation _____
 Reference Stake _____

Pmp'g Derrick _____
 All Meas. From D.E.
 DF above Grd. 2.82 ft.
 Drlg. Commenced (R) 7-18-40
 Drlg. Commenced (CT) 7-26-40
 C. O. Commenced 7-26-40
 DF to Bottom of Cellar 7-30 ft.
 RTT Above DF 12 ft.
 Drlg. Completed (R) 7-24-40
 Drlg. Completed (CT) _____
 C. O. Completed _____
 Kelly Bshg. Above RTT 5"
 Drlg. Contr. Big west.
 Price per Ft. _____
 Days Drlg. (R) 12
 Days Drlg. (CT) _____
 Days C. O. _____

Rotary From 0 To 2798 Cable Tool From 2798 To 2821 Method of Completion C.O.

VERTICAL TESTS		SIZE HOLE DRILLED		Formation Record	
Depth	Degree	Depth	Diam.	Producing Formation (Name)	Remarks: (Specify any Breaks in Producing Formation)
		<u>97</u>	<u>17 3/4"</u>	<u>QV. sand</u>	
		<u>2780</u>	<u>17 3/4"</u>	<u>Top of Pay 2780</u>	
		<u>2798</u>	<u>17 3/4"</u>	<u>Bottom of Pay 2798</u>	
				<u>Thickness 2813</u>	
				<u>Total Depth 2813</u>	
				<u>Plugged Back 8 ft</u>	
Materials Lost and Left in Well					
LEFT AT		Cemented		Description:	
From	To	(Yes or No)			

Date		Size	Wt.	Thds.	MAKE	Pipe Seat (From Derrick Floor)	Csg. (Top) Collar Below D. Floor	Casing Mea. Less Thds.	Landing Nipple Above R. T. T.
<u>7-13-40</u>		<u>13 3/8</u>	<u>54</u>	<u>8 V</u>	<u>S.m.f.s.C-2</u>	<u>90-39</u>	<u>7-13</u>	<u>83-26</u>	<u>17-10</u>
<u>7-23-40</u>		<u>7"</u>	<u>22</u>	<u>10 Rd.</u>	<u>2nd S.m.f.s. Grade 40</u>	<u>2761-05</u>	<u>5-47</u>	<u>2755-58</u>	<u>18-30</u>

Remarks: _____

WORK SUBSEQUENT TO COMPLETION (Date of Work Only)

Date		Size	Sacks Used	Kind	Plug Left At	Cement Found in Pipe At	Top of Cement Behind Casing	Cemented By	REMARKS:
<u>7-13-40</u>		<u>13 3/8</u>	<u>80</u>	<u>INCO2</u>	<u>85-39</u>	<u>86-</u>	<u>84-18</u>	<u>Howco</u>	
<u>7-24-40</u>		<u>7"</u>	<u>50</u>	<u>S.m.f.s.</u>				<u>Howco</u>	

Remarks: _____

Is Bottom of Cellar Cemented? Yes

LINER RECORD

Date	Size	Wt.	Length	SET		Top of Liner Up Inside Casing	Cemented (Sacks)	REMARKS: (Give Details as to Shoes, Perforations, Hanger, etc., and how placed)
				From	To			

Remarks:

BRADENHEAD RECORD

Date	Make	Size	Type	Kind	OUTLETS			Top Below Derrick Floor	REMARKS:
					No.	Size	Thd.		
7-23-40	AMERICAN manufacturing co. of	13 3/8"	Long	Fig. 2	2	3"	81	6.07	Plugged outlets w/ 2 Buff Plugs.

INITIAL SHOT RECORD

Date	Number Quarts	SHELLS		Top of Shot	Bottom of Shot	Length Anchor	Make of Bomb	Shot By	REMARKS:
		No.	Size & Diam. or Dump						

INITIAL ACID RECORD

Date	Quantity (Gallons)	Formula	Acidized By	Formation Treated		Pump Pressure	
				From	To	Start	Finish

WORK SUBSEQUENT TO COMPLETION

(Date of Work Only)

Shots	Drilled Deeper	Cleaned Out	Cemented (P. B.)	Acidized	Abandoned

[illegible]

Date		Size	Wt.	Thds.	MAKE	Pipe Seat (From Derrick Floor)	Csg. (Top) Collar Below D. Floor	Casing Mea. Less Thds.	Landing Nipple Above R. T. T.
7-13-40	13 3/8	54	8 V		Smf C-2	90.39	5.13	83.26	18.10
7-23-40	1"	22	10 Rd.		2nd Smf. 100 ft 8.40 (2nd)	2761.05	5.47	2755.58	18.30

Remarks:

Remarks:

RYAN CONSOLIDATED MINING CORPORATION LINER RECORD

Date	Size	Wt.	Length	SET		Top of Liner Up Inside Casing	Cemented (Sacks)	REMARKS: (Give Details as to Shoes, Perforations, Hanger, etc., and how placed)
				From	To			
Well No. 1	Well No. 1	Well No. 1	Well No. 1	Well No. 1	Well No. 1	Well No. 1	Well No. 1	Well No. 1

Remarks:

Well No. 1	Well No. 1	Well No. 1	Well No. 1	Well No. 1	Well No. 1	Well No. 1	Well No. 1	Well No. 1
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BRADENHEAD RECORD

Date	Make	Size	Type	Kind	OUTLETS		Top Below Derrick Floor	REMARKS:
					No.	Size		
1-23-40	American Manufacturing Co. of Chicago	13 3/8"	Low	Fig 120	2	3 1/2"	81	2 3/4" Holes

INITIAL SHOT RECORD

Date	Number Quarts	SHELLS		Top of Shot	Bottom of Shot	Length Anchor	Make of Bomb	Shot By	REMARKS:
		No.	Size & Diam. or Dump						

INITIAL ACID RECORD

Date	Quantity (Gallons)	Formula	Acidized By	Formation Treated		Pump Pressure	
				From	To	Start	Finish

WORK SUBSEQUENT TO COMPLETION

(Date of Work Only)

Shots	Drilled Deeper	Cleaned Out	Cemented (P. B.)	Acidized	Abandoned

District S. Central Lease H. S. Couch Acres 80 Well No. 2
State Kans County Cowley Sec. 13 Township Block 30 Range 5 AFE No.
Well Location _____ Selected by Whom Seymour H. Hootkins Elevation _____
Reference Stake _____

Pmp'g Derrick	DF to Bottom	Kelly Bshg. Above RTT
All Meas. From <i>D.F.</i>	of Cellar <i>7-70 ft.</i>	Drig. Contr. <i>Big west</i>
DF above Grd. <i>2-82 ft.</i>	RTT Above DF <i>12"</i>	Price per Ft. <i>g</i>
Drig. Commenced (R) <i>7-12-40</i>	Drig. Completed (R) <i>7-24-40</i>	Days Drig. (R) <i>12</i>
Drig. Commenced (CT) <i>7-26-40</i>	Drig. Completed (CT)	Days Drig. (CT)
C. O. Commenced	C. O. Completed	Days C. O.

Rotary From 0 To 2798 Cable Tool From 2798 To 3821 Method of Completion C.D.

VERTICAL TESTS		SIZE HOLE DRILLED		Formation Record	
Depth	Degree	Depth	Diam.	Producing Formation (Name)	Remarks: (Specify any Breaks in Producing Formation)
		97	1 7/8"	Top of Pay	
			9 7/8"	Bottom of Pay	
1000	1			Thickness	
1100	1			Total Depth	
				Plugged Back	
Materials Lost and Left in Well					
LEFT AT				Cemented	Description:
From		To		(Yes or No)	
2200	none				
2500	none				

Date		Size	Wt.	Thds.	MAKE	Pipe Seat (From Derrick Floor)	Cg. (Top) Collar Below D. Floor	Casing Mea. Less Thds.	Landing Nipple Above R. T. T.
7-13-40	13 3/8	54	8		S.mfs.C-2	90-39	7-13	83-26	18-10
7-23-40	7"	24	10		W.S.mfs S.mfs 40		5-44	2,753-58	

Remarks:

CASING CEMENTING RECORD

Date	Size	Sacks Used	Kind	Plug Left At	Cement Found in Pipe At	Top of Cement Behind Casing	Cemented By	REMARKS:
7-13-40	13 3/8	80	9-mco1	85-39	86-	84-18	Howco	
								Is Bottom of Cellar Cemented? <i>yes</i>

Remarks:

Date	Size	Wt.	Length	SET		Top of Liner Up Inside Casing	Cemented (Sacks)	REMARKS: (Give Details as to Shoes, Perforations, Hanger, etc., and how placed)
				From	To			
8/1/24	11 1/2 W	86	4000	1000	2000	1000		1000
8/1/24	11 1/2 W	86	4000	1000	2000	1000		1000

[illegible]

Date	Make	Size	Type	Kind	OUTLETS			Top Below Derrick Floor	REMARKS:
					No.	Size	Thd.		
1-23-40	Fig 120 - Alouin	13 3/4" x 7"			2	3	8V	6.07A	

[illegible]

Date	Quantity (Gallons)	Formula	Acidized By	Formation Treated		Pump Pressure		
				From	To	Start	Finish	
				MAKES	Tlbs.	WT	Drops	Drops
6-10-78	65-28	Coleman's Floor Wash	Pine Sol				100	100
6-12-78	65-28	Coleman's Floor Wash	Pine Sol				100	100

Shots	Drilled Deeper	Cleaned Out	Cemented (P. B.)	Acidized	Abandoned
REMARKS	Cemented By	Top of Cement Behind Casing	Cement Behind in Pipe At	Pipe Joint At	Date
	5-1-78	4-1-78	7-2-	8-2-78	5-1-78
In Bottom of Casing Cemented					