

ORIGINAL

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

API NO. 15- 141-20,255 0000

County Osborne

E/2 SW SW Sec. 20 Twp. 8 Rge. 13  East  West

660  Ft. North from Southeast Corner of Section

4290  Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

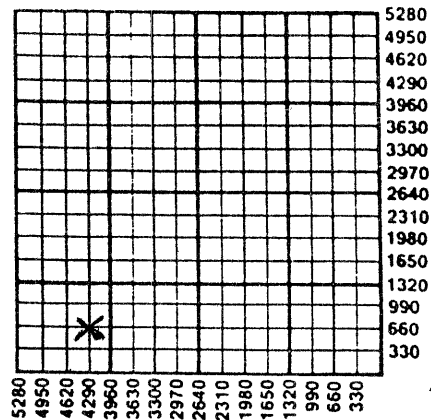
Lease Name Sarver  Well # 1

Field Name Wildcat

Producing Formation None

Elevation: Ground 1853 KB 1858

Total Depth 3425 P8TD None



Amount of Surface Pipe Set and Cemented at 221 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Operator: License # 5184

Name: Shields Oil Producers, Inc.

Address Shields Bldg.

City/State/Zip Russell, KS 67665

Purchaser: None

Operator Contact Person: M. L. Ratts

Phone (913) 483-3141

Contractor: Name: Shields Drlg., Co., Inc.

License: 5655

Wellsite Geologist: Francis Whisler

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  Temp. Abd.

Gas  Inj  Delayed Comp.

Dry  Other (Core, Water Supply, etc.)

If OWMO: old well info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Drilling Method:

Mud Rotary  Air Rotary  Cable

10-11-90 10-18-90 10-18-90  
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature M. L. Ratts

Title Production Supt Date 10-23-90

Subscribed and sworn to before me this 23rd day of October, 1990.

Notary Public Ruth Phillips OCT 31 1990

Date Commission Expires \_\_\_\_\_



K.C.C. OFFICE USE ONLY

F  Letter of Confidentiality Attached

C  Wireline Log Received

C  Drillers Timelog Received

Distribution

KCC  SWD/Rep  NGPA

KGS  Plug  Other (Specify)

Rec'd  
10-31-90

**SIDE TWO**

Operator Name Shields Oil Producers, Inc. Lease Name Sarver Well # 1

Sec. 20 Twp. 8 Rge. 13  East  West County Osborne

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken  Yes  No  
(Attach Additional Sheets.)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
(Submit Copy.)

D.S.T. #1 3124-3165 Times: 30-45-30-45  
Rec. 20' Mud w/Oil spots  
I.H.P. - 1710; I.F.P. - 50-58; I.S.I.P. - 1094; F.F.P. - 58-58; F.S.I.P. - 972;  
F.H.P. - 1699

Formation Description		
	<input type="checkbox"/> Log	<input checked="" type="checkbox"/> Sample
Name	Top	Bottom
Anhydrite	1080	1120
Tarkio Lm	2588	2618
Elmont Lm	2632	2638
Topeka Lm	2795	3049
Heebner Sh	3049	3052
Toronto Lm	3074	3088
L-KC Lm	3103	3418

**CASING RECORD**  New  Used  
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4	8 5/8	20	221	Quickset	160	

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth

**TUBING RECORD** Size Set At Packer At Liner Run  Yes  No

Date of First Production \_\_\_\_\_ Producing Method  Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

**METHOD OF COMPLETION**

Open Hole  Perforation  Dually Completed  Commingled

Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_

Phone 913-483-2627, Russell, Kansas  
 Phone 316-793-5861, Great Bend, Kansas

15-41-20255-00-00  
**ORIGINAL**

Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843

**ALLIED CEMENTING CO., INC. N° 8864**  
 Home Office P. O. Box 31 Russell, Kansas 67665

*New*

Date	10-12-90	Sec.	20	Twp.	8	Range	13	Called Out		On Location		Job Start		Finish	12:30 PM
Case	Sarver	Well No.	1	Location	Luray 16N 3W 1/2 S 3W				County	Osborne	State	KS			
Contractor	Shields Drlg					Owner	Es								
Type Job	Surface					To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.									
Drill Size	12 1/4	T.D.	225		Charge To	Shields Oil Producers									
Log	8 1/2	Depth	221		Street	Shields Bldg									
Log Size		Depth			City	Russell	State	Kan 67665							
Drill Pipe		Depth			The above was done to satisfaction and supervision of owner agent or contractor.										
Tool		Depth			Purchase Order No.										
Cement Left in Csg.	10-15	Shoe Joint			X	Burt Berry									
Press Max.		Minimum			<b>CEMENT</b>										
Leas Line		Displace			Amount Ordered	160 3/4 3% cc 2% gel									
Perf.					Consisting of										

**EQUIPMENT**

Pumptrk	No.	Cementer	Dave Beard
	153	Helper	
Pumptrk	No.	Cementer	Lawrence
		Helper	
Bulktrk		Driver	
		Driver	

**DEPTH of Job**

Reference:	Pump trk. chg	380.00
	2.00 Per mile	90.00
	Solid 8 1/2 Rubber plug	63.00
	<b>Sub Total</b>	<b>533.00</b>
	<b>Tax</b>	
	<b>Total</b>	

Remarks: Cement Cir

Common	96	5.25	504.00
Poz. Mix	6.4	2.25	144.00
Gel.	3	6.75	NR
Chloride	5	21.00	105.00
Quickset			
		Sales Tax	
Handling		1.00	160.00
Mileage	4.5 m	.03	216.00
		Sub Total	1129.00
		Total	
Floating Equipment			

OCT 31 1990 10/31/90

Phone 913-483-2627, Russell, Kansas  
 Phone 316-793-5861, Great Bend, Kansas

15-141-20255-00-00

ORIGINAL

Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC. No. 8869

Home Office P. O. Box 31

Russell, Kansas 67665

*New*

Date	10/18/90	Sec.	20	Twp.	8 S	Range	13 W	Called Out		On Location	1:45 PM	Job Start	2:10 AM	Finish	3:45 PM	
Case	Shields	Well No.	1	Location				16 N 30 W 5 SW 5 S	County	Oshorne	State	Ks				
Contractor	Shields, D. G.															
Job	Drilling															
Core Size	7 1/2"	T.D.	3024													
Csg.	Depth															
Log Size	Depth															
Drill Pipe	Depth															
Tool	Depth															
Cement Left in Csg.	Shoe Joint															
Press Max.	Minimum															
Leas Line	Displace															
Ref.																

**Owner**

To Allied Cementing Co., Inc.  
 You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.

**Charge To**

Shields Oil Producers  
 Street Shields Bldg  
 City Russell State KS 67665

The above was done to satisfaction and supervision of owner agent or contractor.

**Purchase Order No.**

X 3-109

**CEMENT**

**Amount Ordered**

30000 bags of 415 # low set

**Consisting of**

- Common
- Poz. Mix
- Gel.
- Chloride
- Quickset

**Sales Tax**

**Handling**

**Mileage**

**Sub Total**

**Total**

**Floating Equipment**

10/31/90

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**EQUIPMENT**

Dumptk	153	No.	Cementer	Dave
			Helper	
Dumptk		No.	Cementer	
			Helper	
Bulktrk	718		Driver	Wes
Bulktrk			Driver	

**DEPTH of Job**

Reference:	Drill 4 1/2 in	
	265 ft	
	175 ft	
		Sub Total
		Tax
		Total

Remarks:  
 25 sk @ 1100  
 100 @ 650  
 40 @ 260  
 10 @ 40  
 15 Patch 10 mouse 1/2"

15-141-20255-00-00

**ORIGINAL**

COMPANY Shields Oil Prod. FARM Sanver WELL NO. # 1  
 SEC. TWP. . RGE. LOC. COUNTY Osborne STATE Ks  
 CONTRACTOR Shields Drilling Co. SIZE HOLE 7 7/8 DRILL PIPE 4 1/2  
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

221' 8 5/8" w/1605X

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2300</del>	<del>7:39</del>		
1	40	1	Call Whis
2	42	2	
3	44	2	
4	46	2	
5	49	3	
6	52	3	
7	53	1	
8	56	3	
9	58	2	
2310	8:00	2	
1	03	3	
2	05	2	
3	08	3	
4	12	4	conn
5	<del>16</del> 19	3	
6	22	3	
7	24	2	
8	26	2	Vis 33 w/9.5 Lcm 1#
9	27	1	
2320	28	1	
1	29	1	
2	31	2	
3	33	2	
4	36	3	
5	39	3	
6	41	2	
7	43	2	
8	45	2	
9	47	2	
2330	50	3	
1	54	4	
2	57	3	
3	9:01	4	
4	04	3	
5	08	4	
6	13	5	
7	18	3	
8	21	3	
9	23	2	
2340	27	4	
1	31	4	
2	35	4	
3	39	4	
4	43	4	
5	47	4	conn
6	<del>51</del> 55	3	
7	59	4	
8	10:03	4	
9	07	4	
2350	11	5	

10/31/90

OCT 31 1990

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2350</del>	<del>10:11</del>		
1	15	4	
2	18	3	
3	20	2	
4	24	4	
5	27	3	
6	31	4	
7	35	4	
8	38	3	
9	42	4	
2360	46	4	
1	50	4	
2	54	4	
3	57	3	
4	11:01	4	
5	05	4	
6	09	4	
7	12	3	
8	16	4	
9	20	4	
2370	23	3	
1	27	4	
2	31	4	
3	35	4	
4	38	3	
5	41	3	
6	44	3	conn serv. rig
7	<del>53</del> 55	2	
8	58	3	
9	12:02	4	
2380	05	3	
1	08	3	
2	11	3	
3	13	2	
4	15	2	
5	18	3	
6	20	2	
7	24	4	
8	27	3	
9	29	2	
2390	32	3	
1	36	4	
2	39	3	
3	42	3	
4	44	2	
5	46	2	
6	48	2	
7	51	3	
8	54	3	
9	57	3	
2400	59	2	

15-141-20255-00-00

COMPANY Shields Oil Prod. FARM Sarver WELL NO. #1  
 SEC. TWP. RGE. LOC. COUNTY Osborne STATE Ks.  
 CONTRACTOR Shields Drlg. Co. SIZE HOLE 7 7/8" DRILL PIPE 4 1/2"  
 REMARKS: SIZE PUMP LINERS 6" LENGTH STROKE 14"

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2400</del>	<del>12:59</del>		
1	1:02	3	
2	05	3	
3	07	2	
4	09	2	
5	11	2	
6	14	3	
7	16	2	Conn.
8	<del>20</del> 22	2	
9	23	1	
2410	25	2	
1	26	1	
2	28	2	
3	30	2	
4	33	3	
5	37	4	
6	40	3	
7	43	3	
8	46	3	
9	48	2	
2420	50	2	
1	52	2	
2	54	2	
3	56	2	
4	58	2	
5	2:00	2	
6	02	2	
7	03	1	
8	04	1	
9	05	1	
2430	06	1	
1	08	2	
2	11	3	
3	14	3	
4	18	4	
5	21	3	
6	25	4	
7	28	3	
8	30	2	Conn.
9	<del>35</del> 36	2	
2440	38	2	
1	40	2	
2	41	1	
3	42	1	
4	43	1	
5	45	2	
6	46	1	
7	46 1/2	1/2	
8	47 1/2	1/2	
9	50	3	
2450	54	4	

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DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2450</del>	<del>2:54</del>		
1	57	3	
2	3:01	4	
3	03	2	
4	06	3	
5	10	4	
6	15	5	
7	19	4	
8	24	5	
9	28	4	
2460	32	4	
1	36	4	
2	40	4	
3	44	4	
4	49	5	
5	53	4	
6	57	4	
7	1:01	4	
8	05	4	
9	09	4	Conn
2470	<del>13</del> 17	4	
1	21	4	
2	24	3	
3	26	2	
4	30	4	
5	33	3	Wake Reed
6	35	3	
7	38	3	
8	42	5	
9	46	3	
2480	50	4	
1	54	4	
2	58	4	
3	5:02	4	
4	05	3	
5	09	3	
6	11	3	
7	12	2	
8	15	2	
9	17	2	
2490	19	2	
1	22	3	
2	25	3	
3	29	4	
4	33	4	
5	37	4	
6	41	4	
7	46	5	
8	50	4	
9	55	5	
2500	59	4	Conn

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COMPANY Shields Oil Prod. FARM Sarver WELL NO. #1  
 SEC. TWP. .RGE. LOC. COUNTY Osborne STATE Ks.  
 CONTRACTOR Shields Drlg. Co. SIZE HOLE 7 7/8" DRILL PIPE 4 1/2"  
 REMARKS: SIZE PUMP LINERS 6" LENGTH STROKE 14"

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2500</del>	<del>6:04</del>		
1	07	3	
2	11	4	
3	15	4	
4	19	4	
5	22	3	
6	26	4	
7	30	4	
8	33	3	
9	37	4	
2510	41	4	
1	44	3	
2	48	4	Vis 34 - WT. 9.9
3	52	4	LCM 1#
4	56	4	
5	7:00	4	
6	03	3	
7	05	2	
8	08	3	
9	11	3	
2520	13	2	
1	16	3	
2	19	3	
3	22	3	
4	24	2	
5	26	2	
6	28	2	
7	30	2	
8	31	1	
9	32	1	
2530	33	1	Wet spls.
1	34	1	Conn.
2	<del>45</del> 46	1	
3	47	1	
4	50	3	
5	52	2	
6	54	2	
7	56	2	
8	57	1	
9	59	2	
2540	8:01	2	CFS 20-40
1	<del>50</del> 51	1	
2	53	2	
3	55	2	
4	56	1	
5	57	1	
6	59	2	
7	9:04	5	
8	07	3	
9	09	2	
2550	11	2	

10/21/90  
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DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2550</del>	<del>11</del>		
1	12	1	
2	14	2	
3	14 1/2	1/2	
4	15 1/2	1	
5	16	1/2	
6	17	1	
7	18 1/2	1 1/2	
8	19 1/2	1	
9	20 1/2	1	
2560	22	1 1/2	
1	23	1	
2	24	1	
3	25	1	Conn.
4	<del>28</del> 30	1	
5	31	1	
6	32	1	
7	33 1/2	1 1/2	
8	38	4 1/2	
9	41	3	
2570	45	4	
1	48	3	
2	50	2	
3	53	3	
4	56	3	
5	10:00	4	CFS
6	<del>37</del> 40	3	
7	44	4	
8	48	4	
9	52	4	
2580	55	3	
1	59	4	
2	11:02	3	
3	06	4	
4	09	3	
5	12	3	
6	16	4	
7	20	4	
8	21	1	
9	24	3	
2590	29	5	
1	33	4	
2	37	4	
3	42	5	
4	46	4	Conn
5	<del>50</del> 53	3	
6	57	4	
7	12:01	4	
8	05	4	
9	08	3	
2600	11	3	



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COMPANY Shields Oil Prod FARM Sewer WELL NO. #1  
 SEC. TWP. RGE. LOC. COUNTY Osborne STATE Kans.  
 CONTRACTOR Shields Drilling Co SIZE HOLE 7 7/8 DRILL PIPE 4 1/2  
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2600</del>	<del>12:11</del>		
1	15	4	
2	19	4	
3	33	4	
4	38	5	
5	32	4	
6	36	4	
7	39	3	
8	42	3	
9	44	2	
2610	47	3	
1	50	3	
2	52	2	
3	55	3	
4	58	3	
5	1:00	2	
6	01	1	
7	02	1	
8	03	1	
9	05	2	
2620	06	1	
1	07	1	
2	08	1	
3	10	2	
4	11	1	Conn
5	<del>16</del> 18	2	
6	20	2	
7	21	1	
8	23	2	
9	25	2	
2630	27	2	
1	29	2	
2	30	1	
3	34	4	
4	39	5	
5	45	6	
6	49	4	
7	54	5	
8	57	3	
9	2:00	3	
2640	03	3	
1	07	4	
2	11	4	
3	15	4	
4	19	4	
5	23	4	
6	27	4	
7	32	5	
8	36	4	
9	39	3	
2650	42	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2650</del>	<del>2:42</del>		
1	46	4	
2	48	2	
3	51	3	
4	53	2	
5	55	2	Conn. ✓ rig
6	<del>30</del> 10	3	
7	11	1	
8	15	4	
9	18	3	
2660	22	4	
1	26	4	
2	29	3	
3	31	2	
4	36	5	
5	40	4	
6	45	5	
7	49	4	
8	52	3	
9	56	4	
2670	4:00	4	
1	03	3	
2	05	2	
3	10	5	
4	15	5	
5	19	4	
6	23	4	
7	27	4	
8	30	3	
9	32	2	
2680	35	3	
1	38	3	
2	40	2	
3	43	3	
4	46	3	
5	49	3	
6	52	3	conn.
7	<del>57</del> 5:00	3	
8	04	4	
9	08	4	
2690	12	4	
1	17	5	
2	21	4	
3	25	4	
4	29	4	
5	32	3	
6	35	3	
7	38	3	
8	40	2	
9	44	4	
2700	47	3	

10/31/90  
 OCT 31 1990



15-141-20255-00-00

COMPANY Shields O.1 Prod. FARM Sarver WELL NO. 1  
 SEC. TWP. RGE. LOC. COUNTY Osburne STATE KS  
 CONTRACTOR Shields Oclg Co SIZE HOLE 7 7/8 DRILL PIPE 4 1/2  
 REMARKS: SIZE PUMP LINERS 6" LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2700</del>	<del>5:47</del>		
1	49	2	
2	51	2	
3	52	1	vis-34 wt 9.8 lcm 1 <sup>st</sup>
4	54	2	
5	55	1	
6	57	2	
7	58	1	
8	6:00	2	
9	01	1	
2710	02	1	
1	03	1	
2	07	4	
3	12	5	
4	16	4	
5	21	5	
6	25	4	
7	29	4	conn
8	<del>33</del> 36	3	
9	38	2	
2720	40	2	
1	42	2	
2	44	2	
3	48	4	
4	51	3	
5	54	3	
6	57	3	
7	59	2	
8	7:01	2	
9	02	1	
2730	04	2	
1	05	1	
2	07	2	
3	08	1	
4	10	2	
5	11	1	
6	13	2	
7	14	1	
8	16	2	
9	17	1	
2740	21	4	
1	24	3	
2	25	1	
3	26	1	
4	27	1	
5	28	1	
6	29	1	
7	30	1	conn
8	<del>35</del> 36	1/2	
9	36	1/2	
2750	38	2	

10/21/90  
 OCT 31 1990

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2750</del>	<del>7:38</del>		
1	40	2	
2	41	1	
3	43	2	
4	44	1	
5	45	1	
6	47	2	
7	48	1	
8	50	2	
9	52	2	
2760	54	2	
1	55	1	
2	57	2	
3	58	1	
4	8:00	2	
5	0 1/2	1/2	
6	02	1 1/2	
7	05	3	
8	09	4	
9	12	3	
2770	15	3	
1	17	2	
2	20	3	
3	24	4	
4	26	2	
5	30	4	
6	35	5	
7	39	4	
8	42	3	conn
9	<del>42</del> 50	3	
2780	53	3	
1	57	4	
2	9:00	3	
3	03	3	
4	05	2	
5	08	3	
6	11	3	
7	13	2	
8	15	2	
9	16	1	
2790	17	1	
1	19	2	
2	20	1	
3	21	1	
4	23	2	
5	26	3	
6	32	6	
7	37	5	
8	42	5	
9	47	5	
2800	51	4	

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COMPANY Shields O.1 Prod FARM Sarver WELL NO. 1  
 SEC. TWP. RGE. LOC. COUNTY Osbacoe STATE Ks  
 CONTRACTOR Shields Drig Co SIZE HOLE 7 7/8 DRILL PIPE 4 1/2  
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2800</del>	<del>9:51</del>	<del>5</del>	
1	56	5	
2	10:01	5	
3	06	5	
4	11	5	
5	16	5	
6	19	3	
7	25	6	
8	31	6	Conn. Serv. rig
9	<del>42</del> 45	3	
2810	48	3	
1	52	4	
2	56	4	
3	59	3	
4	11:02	3	
5	05	3	
6	09	4	
7	12	3	
8	15	3	
9	19	4	
2820	22	3	
1	25	3	
2	27	2	
3	29	2	
4	30	1	
5	32	2	
6	35	3	
7	37	2	UR
8	38	1	
9	40	2	
2830	42	2	SR
1	43	1	SR
2	44	1	
3	46	2	
4	48	2	
5	50	2	VSR
6	53	3	VSR
7	57	4	
8	12:00	3	
9	03	3	CFS Conn
2840	<del>11:20</del>	3	
1	22	2	
2	26	3	
3	29	4	
4	32	3	
5	35	3	
6	38	3	
7	41	3	
8	44	3	
9	46	2	
2850	49	3	

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DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2850</del>	<del>11:49</del>	<del>4</del>	
1	53	4	
2	56	3	
3	59	3	
4	2:02	3	
5	06	4	
6	09	3	
7	13	4	
8	17	4	
9	21	4	
2860	25	4	
1	28	3	
2	32	4	
3	34	2	
4	35	1	
5	36	1	
6	38	2	
7	40	2	
8	42	2	
9	44	2	
2870	47	3	Conn. Clean pump screen
1	<del>3:00</del> 53	3	Vis 33 Wt. 9.9 LCM. 1
2	06	3	
3	10	4	
4	14	4	
5	18	4	
6	22	4	
7	26	4	
8	29	3	
9	33	4	
2880	37	4	
1	41	4	
2	44	3	
3	48	4	
4	52	4	
5	56	4	
6	4:00	4	
7	04	4	
8	07	3	
9	11	4	
2890	15	4	Wake Cool
1	19	4	
2	23	4	
3	28	5	
4	30	2	
5	33	3	
6	35	2	
7	36	1	R
8	38	2	
9	40	2	
2900	41	1	

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COMPANY Shields Oil Prod. FARM Garver WELL NO. #1  
 SEC. TWP. RGE. LOC. COUNTY Oshannon STATE Ks.  
 CONTRACTOR Shields Drlg. Co. SIZE HOLE 7 1/2" DRILL PIPE 4 1/2"  
 REMARKS: SIZE PUMP LINERS 6" LENGTH STROKE 14"

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2900</del>	<del>44</del>	<del>42</del>	
1	44	42	
2	48	49	
3	51	2	
4	53	2	
5	54	1	
6	56	2	
7	58	2	
8	59	1	
9	5:02	3	
2910	05	3	
1	09	4	
2	11	2	
3	13	2	
4	16	3	
5	20	4	
6	23	3	
7	25	2	
8	28	3	
9	31	3	
2920	35	4	
1	39	4	
2	42	3	
3	45	3	
4	48	3	
5	52	4	
6	56	4	
7	59	3	
8	6:02	3	
9	05	3	
2930	10	5	
1	14	4	
2	19	5	
3	24	5	Conn.
4	28	3	
5	34	3	
6	35	1	
7	36	1	
8	37	1	
9	39	2	
2940	42	3	
1	46	4	
2	49	3	
3	52	3	
4	55	3	
5	58	3	
6	7:02	4	
7	05	3	
8	08	3	
9	11	3	
2950	14	3	

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DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2950</del>	<del>7:14</del>	<del>17</del>	
1	7:14	17	
2	21	4	
3	25	4	
4	28	3	
5	30	2	
6	32	2	
7	36	4	
8	40	4	
9	44	4	
2960	48	4	
1	51	3	
2	53	2	
3	56	3	Conn. Rig ✓
4	8:03	04	2
5	08	4	
6	13	5	
7	18	5	
8	22	4	
9	27	5	
2970	31	4	
1	36	5	
2	41	5	
3	46	5	
4	51	5	
5	55	4	
6	56	1	
7	59	3	
8	9:04	5	
9	08	4	
2980	12	4	
1	17	5	
2	21	4	
3	25	4	
4	29	4	
5	32	3	
6	37	5	
7	39	2	
8	40	1	
9	42	2	
2990	44	2	
1	46	2	
2	49	3	
3	51	2	
4	53	2	
5	55	2	Conn
6	10:05	5	
7	09	4	
8	15	6	
9	20	5	
3000	24	6	

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COMPANY Shields Oil Prod. FARM Sarver WELL NO. #1  
 SEC. TWP. . RGE. LOC. COUNTY Osborne STATE Ks  
 CONTRACTOR Shields Drilling SIZE HOLE 7 7/8 DRILL PIPE 4 1/2  
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3000</del>	<del>10:26</del>		
1	30	4	
2	33	3	
3	36	3	
4	40	4	
5	44	4	
6	47	3	
7	51	4	
8	56	5	
9	11:01	5	
3010	06	5	
1	11	5	
2	14	3	
3	16	2	
4	17	1	
5	18	1	
6	19	1	
7	20	1	
8	21	1	
9	22	1	
3020	24	2	
1	27	3	
2	30	3	
3	33	3	
4	34 1/2	1 1/2	
5	36	1 1/2	
6	37 1/2	1 1/2	Conn. - JET
7	<del>12:45</del> 24	1	
8	25	1	
9	27	2	
3030	28	1	
1	30	2	
2	32	2	
3	33	1	
4	34	1	
5	35	1	
6	37	2	
7	38	1	
8	40	2	
9	42	2	
3040	44	2	
1	45	1	
2	47	2	
3	48	1	
4	50	2	
5	51	1	
6	54	3	
7	58	4	
8	1:03	5	
9	07	4	
3050	10	3	

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DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3050</del>	<del>10</del>		
1	12	2	
2	17	5	
3	22	5	
4	28	6	
5	33	5	
6	37	4	
7	42	5	Conn
8	<del>46</del> 50	4	Mix Mud
9	56	6	
3060	2:02	6	
1	09	7	
2	15	6	
3	22	7	
4	27	5	
5	33	6	
6	38	5	
7	43	5	
8	49	6	
9	55	6	
3070	3:01	6	
1	08	7	
2	13	5	
3	17	4	
4	21	4	
5	27	6	
6	33	6	
7	40	7	
8	47	7	
9	53	6	
3080	4:02	9	
1	09	7	
2	18	9	
3	28	10	
4	34	6	
5	40	6	
6	46	6	
7	52	6	
8	58	6	Conn v rig clean screen
9	<del>5:16</del> 19	3	
3090	21	2	
1	23	2	
2	26	3	
3	30	4	
4	35	5	
5	40	5	
6	45	5	
7	48	3	
8	51	3	
9	54	3	
3100	56	2	

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COMPANY Shields Oil Prod FARM Sarver WELL NO. 1  
 SEC. TWP. RGE. LOC. COUNTY Osborne STATE Ks  
 CONTRACTOR Shields Drilling Co SIZE HOLE 7 7/8 DRILL PIPE 4 1/2  
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3100</del>	<del>5:56</del>		
1	59	3	3103
2	6:02	3	1858
3	05	3	-1245
4	12	7	VIS 43 WT. 9.9
5	19	7	L.C.M. 2' W.L. 10'
6	27	8	
7	28	1	
8	30	2	
9	32	2	
3110	33	1	
1	35	2	
2	36	1	
3	38	2	
4	40	2	
5	42	2	
6	44	2	
7	50	6	
8	57	7	
9	7:04	7	conn
3120	<del>08:14</del>	6	
1	19	5	
2	24	5	
3	32	8	
4	39	7	
5	45	6	
6	51	6	
7	56	5	
8	8:01	5	
9	05	4	
3130	10	5	
1	16	6	
2	23	7	
3	30	7	
4	38	8	
5	44	6	
6	48	4	
7	53	5	
8	9:00	7	
9	08	8	
3140	14	6	
1	20	6	
2	27	7	
3	35	8	
4	41	6	
5	49	8	
6	56	7	
7	10:03	7	
8	09	6	
9	18	9	conn Serv rig
3150	<del>31</del>	5	

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DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3150</del>	<del>10:30</del>		
1	42	6	
2	47	5	
3	53	6	
4	56	3	
5	57	1	
6	11:00	3	VIS 40 WT. 9.9 L.C.M. 2'
7	03	3	
8	05	2	M. 1' mud
9	10	5	
3160	15	5	
1	21	6	
2	27	6	
3	36	9	
4	42	8	
5	49	7	CFS - DST #1
6	10:59	4	41' Anchor
7	19	6	wake me
8	15	6	
9	21	6	
3170	26	5	
1	33	7	
2	38	5	
3	44	6	
4	50	6	
5	55	5	
6	12:07	7	
7	08	6	
8	13	5	
9	18	5	
3180	21	3	
1	25	4	Conn
2	<del>29</del>	4	
3	37	4	
4	44	7	
5	50	6	
6	55	5	
7	59	4	
8	1:02	3	
9	08	6	
3190	15	7	
1	21	6	
2	28	7	
3	33	5	
4	38	5	
5	44	6	
6	50	6	
7	55	5	
8	2:00	5	
9	05	5	
3200	09	4	

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COMPANY Shields Oil Prod FARM Sawyer WELL NO. 1  
 SEC.      TWP.      RGE.      LOC.      COUNTY Osborne STATE Kans  
 CONTRACTOR Shields Drilling Co SIZE HOLE 7 7/8" DRILL PIPE 4 1/2"  
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14"

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3200</del>	<del>09</del>		
1	15	6	
2	19	4	
3	23	4	
4	27	4	
5	32	5	
6	36	4	
7	39	3	
8	42	3	
9	46	4	
<del>3210</del>	<del>50</del>	<del>4</del>	
1	54	4	
2	3:00	6	conn using pump screen
3	21	7	
4	26	5	
5	31	5	
6	33	2	
7	35	2	
8	38	3	vis. 42
9	42	4	wt 10
<del>3220</del>	<del>46</del>	<del>4</del>	wt 12, 2
1	50	4	LCM 1 1/2"
2	55	5	
3	4:00	5	
4	03	3	
5	06	3	
6	10	4	
7	16	6	
8	19	3	
9	26	7	
<del>3230</del>	<del>31</del>	<del>4</del>	
1	38	7	
2	43	5	
3	49	6	
4	56	7	
5	5:00	4	
6	08	8	
7	12	4	
8	20	8	
9	25	5	
<del>3240</del>	<del>33</del>	<del>8</del>	
1	38	5	
2	44	6	
3	52	8	conn
4	6:00	4	
5	07	7	
6	12	5	
7	18	6	
8	24	6	
9	30	6	
<del>3250</del>	<del>37</del>	<del>7</del>	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3250</del>	<del>37</del>		
1	41	4	
2	44	3	
3	53	9	
4	57	4	
5	7:01	4	
6	05	4	
7	09	4	
8	13	4	
9	17	4	
<del>3260</del>	<del>22</del>	<del>5</del>	
1	27	5	
2	30	3	
3	34	4	
4	38	4	
5	43	5	
6	47	4	
7	53	6	
8	8:01	8	
9	07	6	
<del>3270</del>	<del>16</del>	<del>8</del>	vis 40 wt 10. + w/ 13.2
1	22	7	LCM 1 1/2"
2	29	7	
3	36	7	
4	42	6	conn
5	47	4	
6	57	6	
7	9:04	7	
8	09	5	
9	14	5	
<del>3280</del>	<del>21</del>	<del>7</del>	
1	27	6	
2	31	4	
3	36	5	
4	41	5	
5	47	6	
6	53	6	
7	57	4	
8	10:04	7	
9	11	7	
<del>3290</del>	<del>15</del>	<del>4</del>	
1	20	5	
2	25	5	
3	31	6	
4	37	6	
5	44	7	
6	51	7	
7	57	6	
8	11:02	5	
9	07	5	
<del>3300</del>	<del>12</del>	<del>5</del>	

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COMPANY Shields Oil Prod. FARM Sarver WELL NO. #1  
 SEC. TWP. RGE. LOC. COUNTY Osborne STATE Ks.  
 CONTRACTOR Shields Drlg. Co. SIZE HOLE 7 7/8" DRILL PIPE 4 1/2"  
 REMARKS: SIZE PUMP LINERS 6" LENGTH STROKE 14"

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3300</del> 1	<del>11:12</del> 17	5	
2	21	4	
3	25	4	
4	29	4	
5	33	4	Conn. Serv. rig
6	<del>44</del> 47	3	Clean pump screer
7	50	3	
8	53	3	
9	56	3	
<del>3310</del> 1	<del>12:00</del> 03	3	
2	07	4	
3	11	4	
4	17	6	
5	23	6	
6	29	6	
7	36	7	
8	42	6	
9	48	6	
<del>3320</del> 1	<del>52</del> 57	5	
2	1:02	5	
3	09	7	
4	15	6	
5	21	6	
6	27	6	
7	33	6	
8	39	6	
9	42	3	
<del>3330</del> 1	<del>45</del> 49	4	
2	53	4	
3	58	5	
4	2:04	6	Vis. 40 Wt. 10.2
5	10	6	WL. 15.0 LCM 1 1/2"
6	15	5	Conn.
7	<del>20</del> 24	4	Mix mud
8	29	5	
9	32	3	
<del>3340</del> 1	<del>37</del> 41	4	
2	47	6	
3	53	6	
4	59	6	
5	3:06	7	
6	13	7	
7	20	7	
8	27	7	
9	33	6	
<del>3350</del> 1	<del>40</del> 40	7	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3350</del> 1	<del>3:40</del> 46	6	
2	53	7	
3	4:00	7	
4	07	7	
5	13	6	
6	19	6	
7	25	6	
8	32	7	
9	39	7	
<del>3360</del> 1	<del>46</del> 54	8	
2	5:01	7	
3	06	5	
4	09	3	
5	12	3	
6	14	2	
7	20	6	Conn.
8	<del>24</del> 30	6	Vis 42 Wt. 10.2
9	36	6	WL. 14 LCM 1 1/2"
<del>3370</del> 1	<del>42</del> 47	5	
2	53	6	
3	58	5	
4	6:05	7	
5	10	5	
6	17	7	
7	23	6	
8	29	6	
9	36	7	
<del>3380</del> 1	<del>43</del> 50	7	
2	57	7	
3	7:04	7	
4	11	7	
5	17	6	
6	24	7	
7	29	5	
8	34	5	
9	40	6	
<del>3390</del> 1	<del>46</del> 52	6	
2	58	6	
3	8:05	7	
4	12	7	
5	18	6	
6	23	5	
7	28	5	
8	31	3	Conn. Rig ✓
9	<del>42</del> 44	2	
<del>3400</del> 1	<del>48</del> 48	4	

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