

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

API NO. 15- 141-20,274-00-00 ORIGINAL

County Osborne  
SW SE NE Sec. 9 Twp. 10 Rge. 12 X E W

Operator: License # 5184 (Was, 3345)

2970 Feet from (S)N (circle one) Line of Section

Name: Shields Oil Producers, Inc.

990 Feet from (E)W (circle one) Line of Section

Address Shields Bldg.

Footages Calculated from Nearest Outside Section Corner:  
NE, (SE) NW or SW (circle one)

(Was Leroy Tobiás)

City/State/Zip Russell, KS 67665

Lease Name Single Well # 1

Purchaser: Farmland

Field Name Wildcat

Operator Contact Person: M. L. Ratts

Producing Formation Kansas City

Phone (913) 483-3141

Elevation: Ground 1779 KB 1784

Contractor: Name: Shields Drlg. Co.

Total Depth 3320 PBDT 3101

License: 5184

Amount of Surface Pipe Set and Cemented at 221 Feet

Wellsite Geologist: Francis Whisler

Multiple Stage Cementing Collar Used? x Yes      No

Designate Type of Completion

If yes, show depth set 875 Feet

X New Well      Re-Entry      Workover

If Alternate II completion, cement circulated from 875

X Oil      SWD      SIGW      Temp. Abd.

feet depth to Surface w/ 200 sx cmt.

     Gas      ENHR      SIGW

Drilling Fluid Management Plan ALT 2 2-18-93  
(Data must be collected from the Reserve Pit)

     Dry      Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Chloride content 67,000 ppm Fluid volume 800 bbls

Operator:     

Dewatering method used Evaporation

Well Name:     

Comp. Date      Old Total Depth     

Location of fluid disposal if hauled offsite:     

     Deepening      Re-perf.      Conv. to Inj/SWD

Operator Name     

     Plug Back      PBDT

Lease Name      License No.     

     Commingled      Docket No.     

Quarter      Sec.      Twp.      S Rng.      E/W

     Dual Completion      Docket No.     

     Other (SWD or Inj?) Docket No.     

County      Docket No.     

12-21-92 12-30-92 1-20-93

Spud Date      Date Reached TD      Completion Date     

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 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 geologist well report 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.

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

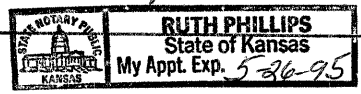
Title Superintendent Date 2-3-93

Subscribed and sworn to before me this 3rd day of February, 1993

Notary Public Ruth Phillips

Date Commission Expires     

K.C.C. OFFICE USE ONLY  
Letter of Confidentiality Attached       
Wireline Log Received       
Mud Report Received       
Distribution  
     SWD/Rep      NGPA  
     Plug      Other  
(Specify)

  
RUTH PHILLIPS  
State of Kansas  
My Appt. Exp. 5-26-95

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

Sec. 9 Twp. 10 Rge. 12  East County Osborne

West

**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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	838	870
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topeka Lm	2714	2946
List All E.Logs Run:		Heebner Sh	2947	2951
ELI G/N		Toronto Lm	2971	2976
		L-KC Lm	3006	3310 Spl

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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	145	
Production	7 7/8	4 1/2	10 1/2	3144	Common	125	
		Stage Tool		875	20-40 Poz	200	1/4# Flo-Seal

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives	
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type	Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
4	3056-3060	500 gal 15% acid	3060

<b>TUBING RECORD</b>	Size 2"	Set At 3096	Packer At None	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj. 2-2-93	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls. 50	Gas Mcf None	Water Bbls. None	Gas-Oil Ratio	Gravity
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Disposition of Gas:  Vented  Sold  Used on Lease (if vented, submit Ac )

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify)

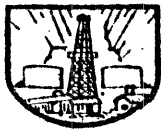
Production Interval 3056-3060

# Shields

# ORIGINAL

OIL PRODUCERS, INC.

R. L. SHIELDS, President



## Russell, Kansas

### FORM ACO-1 DRILL STEM TESTS

SHIELDS OIL PRODUCERS, INC. LEASE                      Sngle #1                     

D.S.T. #1 3010-3044 Times: 30-30-30-30

I.H.P.                      I.F.P. 51-51 I.S.I.P. 76

F.F.P. 55-51 F.S.I.P. 59 F.H.P.                     

Recovery: 15' SOCM

D.S.T. #2 3045-3065 Times: 15-45-45-45

I.H.P.                      I.F.P. 101-117 I.S.I.P. 1075

F.F.P. 168-236 F.S.I.P. 1042 F.H.P.                     

Recovery: 960' Gas and 725' Mdy Gsy Oil

D.S.T. #3                      Times:                     

I.H.P.                      I.F.P.                      I.S.I.P.                     

F.F.P.                      F.S.I.P.                      F.H.P.                     

Recovery:

D.S.T. #4                      Times:                     

I.H.P.                      I.F.P.                      I.S.I.P.                     

F.F.P.                      F.S.I.P.                      F.H.P.                     

Recovery:

D.S.T. #5                      Times:                     

I.H.P.                      I.F.P.                      I.S.I.P.                     

F.F.P.                      F.S.I.P.                      F.H.P.                     

Recovery:

D.S.T. #6                      Times:                     

I.H.P.                      I.F.P.                      I.S.I.P.                     

F.F.P.                      F.S.I.P.                      F.H.P.                     

Recovery:

RECEIVED  
STATE CORPORATION COMMISSION  
FFB - 41993  
CONSERVATION DIVISION  
WICHITA, KANSAS

ORIGINAL

# ALLIED CEMENTING CO., INC.

4233

New

Home Office P. O. Box 31

Russell, Kansas 67665

Date	12-21-92	Sec.	9	Fwp.	10 S	Range	12 W	Called Out	11:45 PM	On Location	1:00 AM	Job Start	3:45 AM	Finish	4:00 AM
Lease	SIGLE	Well No.	#1	Location	LURAY 5N 1 1/2 E 1/2 N			County	OSBORNE	State	KANSAS				
Contractor	SHIELD'S DAIG. Rig #2							Owner	VZE						
Type Job	SURFACE														
Hole Size	12 1/4			T.D.	224'										
Csg.	8 5/8 20 #			Depth	221'										
Tbg. Size				Depth											
Drill Pipe				Depth											
Tool				Depth											
Cement Left in Csg.	15'			Shoe Joint											
Press Max.				Minimum											
Meas Line				Displace	13 1/2 BBL										
Perf.															

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

Charge To LEROY E. TOBIAS  
 Street HC-69-Box 42  
 City Bunker Hill State Kansas 67626  
 The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. X Burton Beery  
**CEMENT**

Amount Ordered 145 SK 6 3/4 2% Gel 3% CC

Consisting of		
Common	87 @ 5.50	478.50
Poz. Mix	58 @ 2.50	145.00
Gel.	3 @ N/C	N/C
Chloride	5 @ 21.00	105.00
Quickset		

Handling @ 1.00 Sales Tax  
 Mileage 4¢/Sq/Mile 145.00  
28 162.40  
 Sub Total 1035.90  
 Total

### EQUIPMENT

Pump,prk #177	No.	Cementer	<i>[Signature]</i>
		Helper	
Pump,prk #218	No.	Cementer	<i>[Signature]</i>
		Helper	
Bulk,prk #218		Driver	<i>[Signature]</i>
		Driver	

DEPTH of Job		
Reference:	PUMP TRUCK CHRG.	380.00
	2.00 PER MILE	56.00
1-8 5/8	RUBBER PLUG	73.00
	Sub Total	
	Tax	
	Total	509.00

Remarks:  
Cement CIRCULATED  
[Signature]

RECEIVED  
 STATE CORPORATION COMMISSION  
 FEB - 4 1993  
 CONSERVATION DIVISION  
 WICHITA, KANSAS

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

15-141-20274-00-00

ORIGINAL

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

*New*

**ALLIED CEMENTING CO., INC.**

4642

Home Office P. O. Box 31

Russell, Kansas 67665

Date	Sec.	fwp.	Range	Called Out	On Location	Job Start	Finish
12-30-92	9	10	12	3:30 PM	6:30 PM	8:30 PM	9:30 PM
Lease	Well No. #1		Location		County	State	
Single			LURAY 5N 1 1/2 E 21 N 2 E		Osborne		KANSAS
Contractor			Rig		Owner		
Shields Oil			Rig 2		Leroy E Tobias		
Type Job			Bottom Stage		To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.		
Hole Size		T.D.		Charge To			
7 7/8"		3320'		Shields Oil Producers			
Csg.		Depth		Street			
4 1/2"		3144'		Shields Bldg			
Tbg. 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.			
D.V. Tool		875'		X Burton Beery			
Cement Left in Csg.		Shoe Joint		CEMENT			
36"		36"		Amount Ordered			
Press Max.		Minimum		125 SKS COM			
Meas Line		Displace		Consisting of			
yes				Common			
Perf.				125 SKS @ 5.50			
				687.50			

**EQUIPMENT**

#177 No.	Cementer	Bill M
Pumptrk	Helper	M KAUFMAN
No.	Cementer	GLENN G.
Pumptrk	Helper	
#155	Driver	JASON L.
Bulktrk	Driver	

DEPTH of Job		
Reference:		
#	PUMP Tnk	880.00
	2.00 per mile	56.00
	Sub Total	
	Tax	936.00
	Total	

Remarks: Float Held

*Thanked*

Handling	1.00 per SK	125.00
Mileage	4¢ per SK/mile	140.00
	28 miles	
	Sub Total	952.50
	Total	
Floating Equipment		
	4 1/2	
	3 - Centralizers	129.00
	1 - Basket	113.00
	1 - AFU Insert	169.00
	1 - Guide Shoe	109.00
	Total:	520.00

Phone 793-463-2627, Russell, Kansas  
 Phone 316-793-5861, Great Bend, Kansas

15-141-20274-00-00  
**ORIGINAL** Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843

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

4643

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
12-30-92	9	10	12	3:30 PM	6:30 PM	9:45 PM	10:30 PM
Lease	Well No. #1		Location		County	State	
Sigle	#1		Luray 5N 12E 20SE		OSBORNE	KANSAS	
Contractor Shields Drlg Rig 2				Owner SAME			
Type Job production Top Stage				To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size 7 7/8"	T.D. 3320'			Charge To Leroy E. Tobias			
Csg. 4 1/2"	Depth 3144'			Street HC 69 Box 42			
Tbg. Size	Depth			City Bunker Hill State KS 67626			
Drill Pipe	Depth			The above was done to satisfaction and supervision of owner agent or contractor.			
Tool Arrow D.V. Tool	Depth 875'			Purchase Order No.			
Cement Left in Csg. 36'	Shoe Joint 36'			X Burton Beery			
Press Max.	Minimum			CEMENT			
Meas Line YES	Displace			Amount Ordered 225 SKS 60/40 poz. 6 7/8 bel 1/4 Flo-Seal			
Perf.				Consisting of			

**EQUIPMENT**

#177 No.	Cementer	Bill M
Pumptrk	Helper	M Kaufman
No.	Cementer	Glenn G.
Pumptrk	Helper	
#160	Driver	Paul D.
Bulktrk	Driver	

**DEPTH of Job**

Reference:	# PUMP TRK	475.00
	Sub Total	475.00
	Tax	
	Total	

Remarks: 15 SKS CEMENT in Rat Hole  
 10 SKS CEMENT in Mouse Hole  
 CEMENT did circulate to surface Marilyn Kaufman  
 D.V. Tool closed OK

Common	135 SKS @ 5.50	742.50
Poz. Mix	90 SKS @ 2.50	225.00
Gel.	8 SKS @ 6.75	54.00
Chloride		
Quikset Flo-Seal	56 lbs @ 1.00	56.00
Handling	1.00 per SK	225.00
Mileage	4¢ per SK mile	252.00
	28 miles	
	Sub Total	1,554.50
	Total	

**Floating Equipment**

1- Arrow D.V. Tool - 1,890.00  
 1- Basket - 113.00  
 4- Centralizers - 172.00  
 Total = 2,175.00

Bill M. [Signature]  
 Burton Beery

15-141-20274-00-00

**FRANCIS C. WHISLER**  
CERTIFIED PETROLEUM GEOLOGIST

**RUSSELL, KANSAS 67665**  
Bus. 913-483-3020 Res. 913-483-3496

ORIGINAL



LEROY E. TOBIAS  
HC 69 Box 42  
Bunker Hill, Kansas  
&  
SHIELDS OIL PRODUCERS, INC.  
Box 709  
Russell, Kansas

Geological Report  
Sigue No. 1  
SW SE NE of Section 9  
Twp. 10 South, Rge. 12 West  
Osborne County, Kansas

January 4, 1993





ORIGINAL

## Lithology; Zones of Interest and Test Data:

## Lansing-Kansas City:

3006-3016: LS-white, buff, light gray, dense to trace of vuggy porosity.  
 A zone Trace of rare oil stain with faint odor. Trace of pin hole porosity. Tested by Drillstem test #1.

3032-3044: LS-White, buff, gray, dense with trace of white sucrosic dolomite. Very cherty. Only slight porosity. Trace of light oil stain. Tested by drillstem test #1.

DRILLSTEM TEST No. 1: 3010 to 3044: 30-30-30-30- with weak blow throughout

Recovery: 45' of gas  
 15' of slight oil cut mud with show of free oil on top

IFP: 51-51  
 IBHP: 76  
 FFP: 51-51  
 FBHP: 59

3054-3064: LS-white, some buff, fine to medium oolitic with some white chert. Fair oil stain; poor to fair saturation. Good show of free oil and good odor. Tested by drillstem test #2.

DRILLSTEM TEST No. 2: 3045 to 3065: 15-45-45-45 with very good blow through out

Recovery: 960' of gas  
 725' of muddy gassy oil

IFP: 101-117  
 IBHP: 1075  
 FFP: 168-236  
 FBHP: 1042

3120-3131: LS-white, gray, dense to very chalky with some fine oolitic porosity. Some white chert. Trace of dark oil stain. No free oil or odor. Not considered to be worthy of testing.

ORIGINAL

## Remarks &amp; Recommendations:

The following table compares the Sigle #1 with the Homewood #1, a Lansing "C" Zone producing well:

	Sigle #1 SW SE NE Sec. 9	Homewood #1 NE NE SE Sec. 9
Anhydrite	+ 946	+ 953
Topeka	- 929	- 934
Heebner	-1163	-1166
Lansing	-1222	-1229
"C" Zone porosity	-1270	-1273
Base of KC	-1526	-1527

You will note from the foregoing table that the Sigle #1 ran a few feet higher, structurally, when compared to the Homewood #1. During the drilling of the well, numerous zones of porosity were noted but only the A, B and C zones were considered to have any commercial value. Drillstem test #2 confirmed good commercial oil production from the "C" zone.

Production casing was set at 3144' for completion. Prior to completion a cased hole, gamma ray-neutron-collar log will be run and perforating will be done from collar measurements. The only zone that need be perforated is the "C" zone of the LKC.

Respectfully submitted;

*Francis C. Whisler*  
Francis C. Whisler

FRANCIS C. WHISLER  
 CERTIFIED PETROLEUM GEOLOGIST  
 AAPG and APGS  
 RUSSELL, KANSAS 67665

ORIGINAL



GEOLOGIC LOG

LEROY E. TOBIAS & SHIELDS OIL PRODUCERS, INC.

Bunker Hill & Russell, Kansas

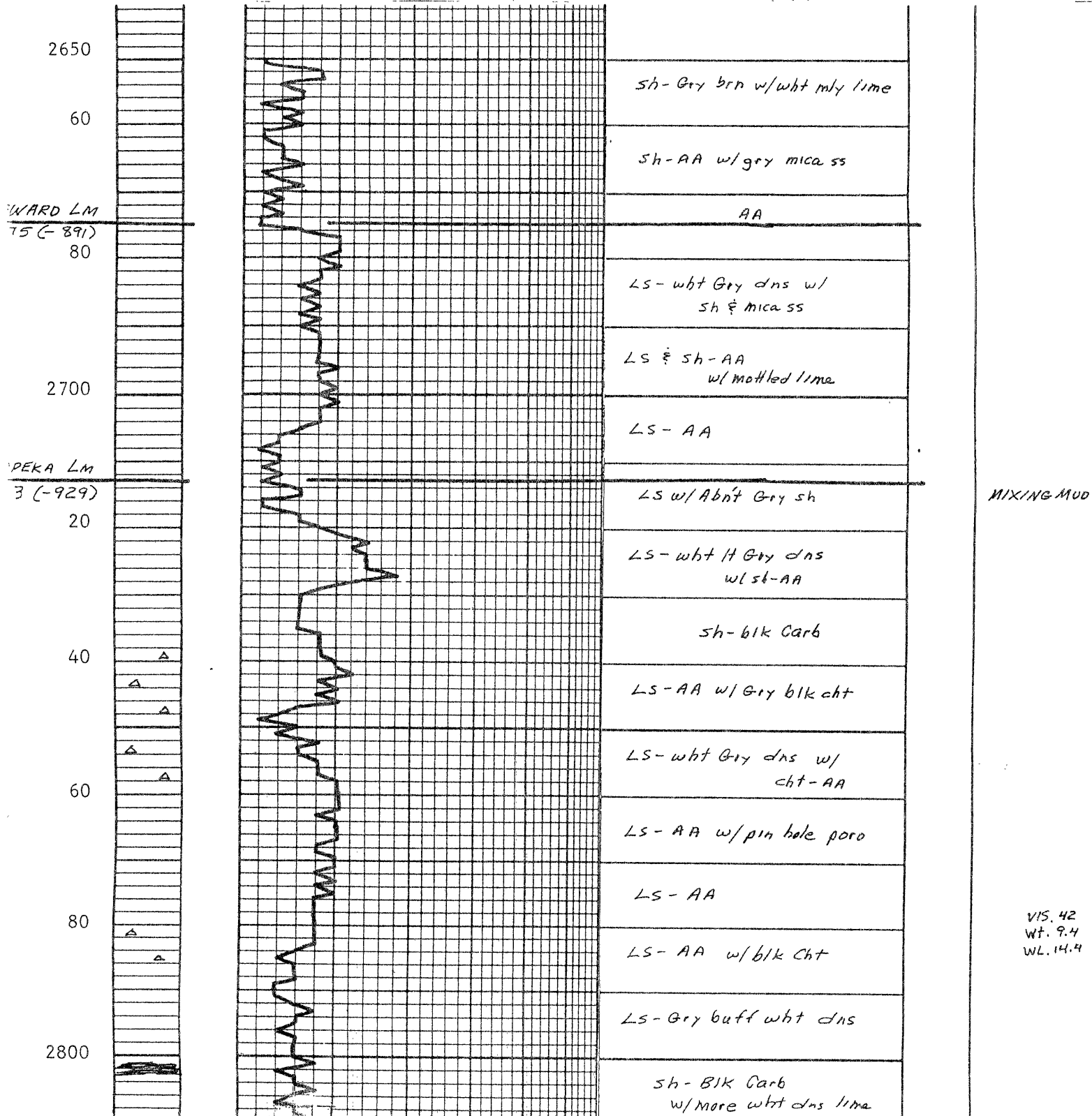
Signle #1, SW SE NE of Sec. 9, 10s, 12w, Osborne County, Kansas

Commenced: Dec. 20, 1992 and Completed: Dec. 30, 1992

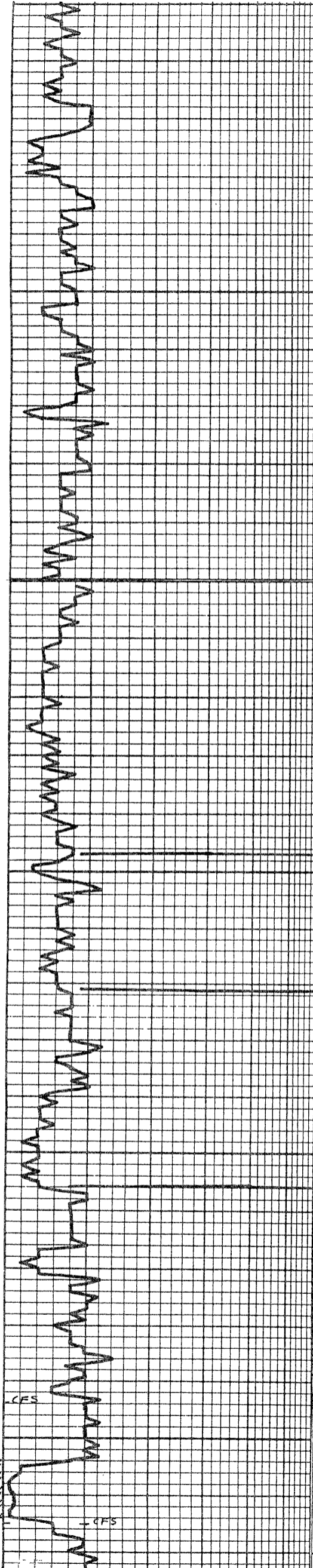
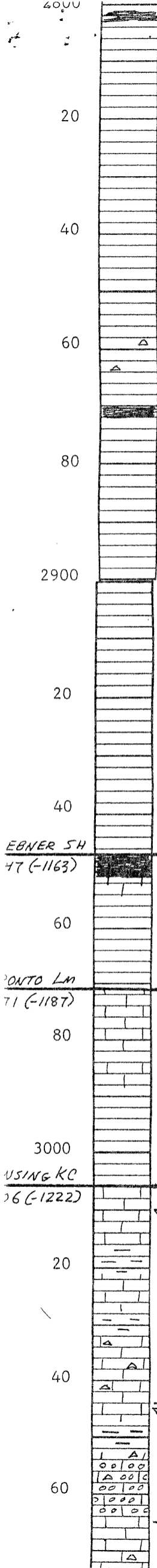
Casing Record: 8 5/8" @ 221' with 145 sx.  
 4 1/2" @ 3144' with 125 sx. DV Tool @ 875' with 200 sx.

Elevations: 1784' KB  
 1779' GL

Formations:	Depth:	Datums:
Anhydrite	838-70	+ 946
Topeka	2713	- 929
Heebner	2947	-1163
Lansing	3006	-1222
Base KC	3310	-1526
Total Depth	3320	-1536



ORIGINAL



sh - Bk Carb 15-141-20274-00-00  
w/more wht dns lime

sh - Gry blk brn  
w/wht dns Lm

LS - wht Gry buff  
xln to chky

LS - AA w/ porosity

LS - wht buff gry xln -  
chky to dns w/some poro

LS - AA w/ gry blk sh

LS - wht & AA w/ Trace  
blk cht

sh - blk Carb w/LS-AA  
some Gry brn sh

LS - wht Gry dns  
w/sh - AA

LS & sh - AA

LS - AA & vy chky

LS - wht Gry dns to  
vy chky

LS - AA w/ foss porosity

LS - AA

LS - AA

sh - Bk Carb w/  
dns gry buff LS

sh - AA w/ Gry brn & pale grn  
shales

LS - wht, Some lt. Gry dns

sh - Gry blk brn  
& pale Grn

sh - AA

sh - AA

LS - wht buff lt Gry dns to  
Trace vug  $\Phi$ : Trace Rare  
str. Ft. odor. Trace pin-  
hole poro.

sh - Bk Gry brn Grn

LS - AA w/still Trace str.  
Abnt sh - AA

LS - wht buff Gry dns w/  
Trace wht suc dol. Vy  
chty: Trace ft. str. No odor

circ: LS - AA w/ str - AA & cht

sh - Gry brn

LS - wht Some buff f - m odc  
w/some wht cht. Fair str.  
poor to fair sat. Good poro.  
GSFO & Good Odor

LS - wht lt Gry dns

VIS. 42  
WT. 9.6  
WL. 10.8

VIS. 76  
WT. 9.8  
WL. 13.6

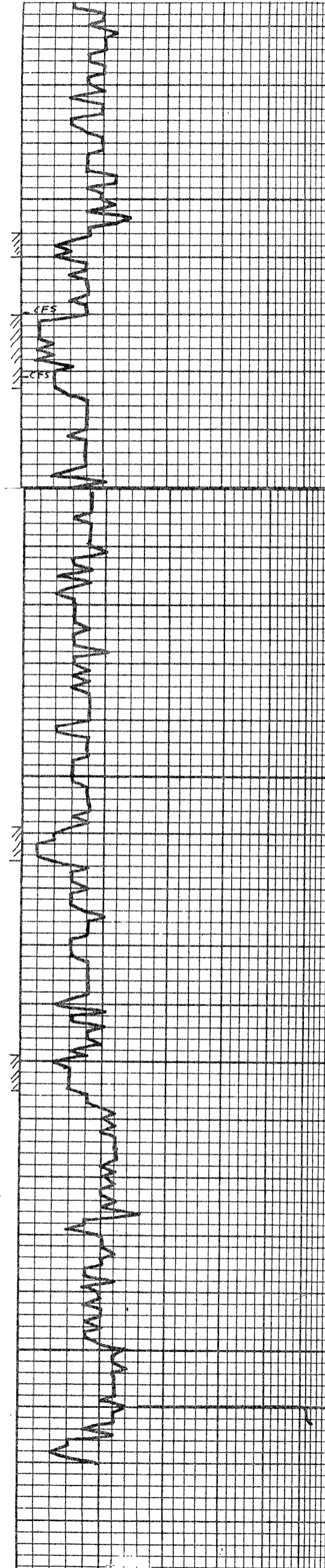
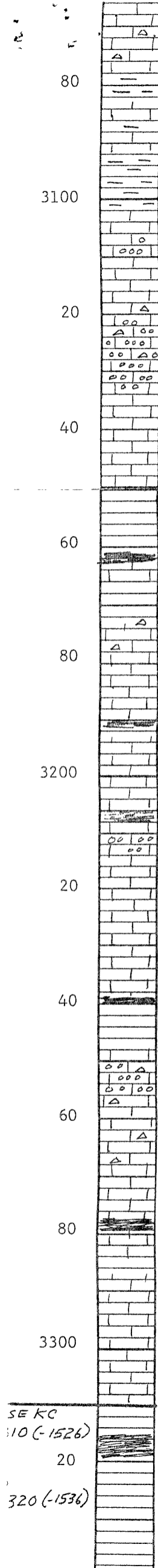
MIXING-MUD

DST #1  
3010-44  
30-30-30-30  
Wk Blo THRU-out  
REC. 45' GAS  
15' SDCM  
W/ S.F.O.  
IFP: 51-51  
IBHP: 76  
FFP: 51-51  
FBHP: 59

VIS. 41  
WT. 9.8  
WL. 15

DST #2  
3045-65  
15-45-45-45  
Vy Good Blo  
THRU-out  
REC. 960' GAS  
725' MGD  
IFP: 101-117

ORIGINAL



LS - wht lf Gry dns  
w/wht cht

sh - Blk Carb & Gry w/  
LS - AA & some chty

sh - Gry & brn

LS - wht Gry dns to vly chty  
some mott'ld

w/ some oolc porosity & oolcht  
wht chty to dns Lm

LS - wht lf Gry dns to vly  
chky w/ fair oolc poro.  
Trace Ork str: Some wht Δ

LS - wht lf Gry dns to chky

LS - AA

LS - AA

LS - AA w/ Abnt Gry brn  
& blk sh

LS - wht Gry buff dns  
w/ Trace cht

LS - AA

LS - AA w/ Gry blk brn sh

LS - AA

LS - wht buff lf Gry dns  
to chky w/ some oolc φ

LS - AA

LS - Gry buff dns w/  
Trace oolc φ

sh - Blk Carb w/  
Gry & blk sh

LS - wht buff dns to vly  
chky w/ some oolc & ool  
Lime. Poro. some cht

LS - more dns & some chky  
some cht

sh - Blk Carb

LS - Gry buff dns & sh - Gry  
& brn

LS - wht Gry buff dns  
to chky

LS - AA & some Tandus

sh - Gry blk Grn &  
brn & Blk Carb sh

VIS. 42  
WT. 9.8  
WL. 9.2

VIS. 38  
WT. 10  
WL. 12



COMPANY Veron E Tobias FARM Sigle 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
2700	07:58	5	
	7:02	4	
	06	4	
	02	4	
	13	3	
	15	2	
	17	2	
	18	1	
	20	2	
2710	22	2	
	23	1	
	25	2	
	26	1	
	29	3	
	32	3	Conn
	<del>36</del> 37	1	Mix mud
	43	3	
	41	3	
	44	3	
2720	48	4	
	53	5	
	8:00	7	
	06	6	
	13	7	
	20	7	
	27	7	
	36	9	
	42	6	clean pump screen
	<del>50</del> 54	4	
2730	57	3	
	9:00	3	
	03	3	
	06	3	
	09	3	
	12	3	
	16	4	
	20	4	
	24	4	
	28	4	
2740	33	5	
	38	5	
	44	6	
	48	4	
	53	5	
	57	4	
	10:02	5	conn
	<del>04</del> 07	3	
	09	2	
	10	1	
2750	13	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2700</del>	<del>10:13</del>		
1	15	2	
2	19	4	
3	22	3	
4	25	3	
5	29	4	
6	33	4	
7	37	4	ORIGINAL
8	42	5	
9	47	5	
2760	52	5	
1	57	5	
2	11:02	5	
3	06	4	
4	11	5	
5	16	5	
6	21	5	
7	26	5	
8	30	4	
9	34	4	
2770	39	5	
1	44	5	
2	48	4	
3	53	5	
4	57	4	
5	12:02	5	
6	06	4	Conn. Serv. rig
7	<del>19</del> 23	4	
8	27	4	
9	31	4	
2780	35	4	Vis - 42 WT - 9.4
1	39	4	WT - 14.4 LCM - 1#
2	43	4	
3	47	4	
4	50	3	
5	52	2	
6	55	3	
7	58	3	
8	1:01	3	
9	03	2	
2790	05	2	
1	07	2	
2	10	3	
3	14	4	
4	17	3	
5	20	3	
6	22	2	
7	25	3	
8	28	3	
9	31	3	
2800	34	3	



ERDY E Tobias

FARM Sigle

WELL NO. 1

DRILLER: SHIELDS Drilling Co  
 COUNTY OSBORNE STATE KS  
 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2  
 LOCATION: 1230 Vis 42 wt 9.4 WL 144 LCM 1"  
 SIZE PUMP LINERS 6 LENGTH STROKE 14

DEPTH	TIME O'CLOCK	MIN.	REMARKS
38		4	
40		2	
43		3	
46		3	
50		4	
53		3	
55		2	Conn.
57		3	
58		3	
59		4	
1		2	
2		3	
3		3	
4		3	
5		2	
6		3	
7		3	
8		5	
9		5	
10		5	
11		5	
12		4	
13		3	
14		1	
15		2	
16		3	
17		1	
18		3	
19		1	
20		3	
21		3	
22		3	
23		4	
24		4	
25		3	
26		3	
27		3	
28		4	Conn. Totco line
29		3	
30		3	
31		3	
32		4	
33		3	
34		4	
35		4	
36		4	
37		5	
38		3	
39		3	
40		4	
41		3	
42		3	
43		3	
44		4	
45		4	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2850	4:30		
1	34	4	
2	38	4	
3	40	2	
4	42	2	
5	45	3	
6	48	3	
7	51	3	
8	55	4	
9	59	4	
2860	5:04	5	
1	07	3	
2	12	5	
3	16	4	
4	20	4	
5	24	4	
6	28	4	
7	33	5	
8	37	4	
9	41	4	Conn VIS-42 wt-9.6
2870	4:50	3	WL-10.8 LCM-1"
1	51	1	
2	53	2	
3	59	6	
4	6:03	4	
5	08	5	
6	12	4	
7	16	4	
8	20	4	
9	24	4	
2880	29	5	
1	34	5	
2	37	3	
3	40	3	
4	43	3	
5	47	4	
6	50	3	
7	53	3	
8	56	3	
9	7:00	4	
2890	04	4	
1	07	3	
2	12	5	
3	16	4	
4	19	3	
5	21	2	
6	25	4	
7	27	2	
8	30	3	
9	33	3	
2900	35	2	Conn. Ser. Rig



15-141-20274-00-00

COMPANY Heroy E. Tobias FARM Sigle 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

Dick  
santa Fe

505-988-2811

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2900</del>	<del>11:52</del>		
1	11:57	4	
2	12:02	5	
3	12:06	4	
4	12:09	3	
5	12:12	3	
6	12:15	3	
7	12:19	4	
8	12:22	3	
9	12:25	3	
2910	12:28	3	
1	12:31	3	
2	12:33	2	
3	12:35	2	
4	12:37	2	
5	12:40	3	
6	12:42	2	
7	12:44	2	
8	12:46	2	
9	12:48	2	
2920	12:50	2	
1	12:53	3	
2	12:55	2	
3	12:57	2	
4	12:59	2	
5	1:00	1	
6	1:03	2	
7	1:05	3	
8	1:07	2	
9	1:10	3	
2930	1:12	2	
1	1:15	3	Conn.
2	<del>1:21</del> 1:23	2	
3	1:27	4	
4	1:30	3	
5	1:32	2	
6	1:35	3	
7	1:37	2	
8	1:40	3	
9	1:43	3	
2940	1:45	2	
1	1:48	3	
2	1:52	4	
3	1:55	3	
4	1:58	3	
5	10:01	3	HB
6	05	4	2947
7	09	4	1724
8	12	3	-1163
9	13 1/2	1 1/2	
2950	15	1 1/2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2950</del>	<del>10:15</del>		
1	10:18	3	
2	10:23	5	
3	10:29	6	
4	10:32	3	
5	10:36	4	
6	10:39	3	
7	10:42	3	
8	10:45	3	
9	10:48	3	
2960	10:51	3	
1	10:55	4	Conn.
2	<del>11:01</del> 11:04	3	vis. 36 wt. 9.8 +
3	11:08	4	WL 13.6 acm. 1/2
4	11:11	3	
5	11:13	2	
6	11:16	3	
7	11:18	2	
8	11:21	3	
9	11:24	3	
2970	11:27	3	
1	11:30	3	
2	11:34	4	
3	11:38	4	
4	11:42	4	
5	11:45	3	
6	11:49	4	
7	11:53	4	Mix Mud
8	11:57	4	
9	12:01	4	
2980	12:05	4	
1	12:11	6	
2	12:16	5	
3	12:19	3	
4	12:22	3	
5	12:26	4	
6	12:31	5	
7	12:35	4	
8	12:40	5	
9	12:43	3	
2990	12:45	2	
1	12:48	3	
2	12:50	2	Conn.
3	<del>12:55</del> 12:57	2	
4	12:59	2	
5	1:02	3	
6	1:04	2	
7	1:06	2	
8	1:07	1	
9	1:09	2	
3000	1:11	2	

COMPANY Erroy E. Tobias FARM Sigle WELL NO. #1  
 SEC. 1 TWP. 1 RGE. 1 LOC. 1 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>3000</del>	1	13	2	
	2	14	1	
	3	16	2	+
	4	17	1	
	5	19	2	
	6	21	2	3006 1784 -1222
	7	26	5	
	8	31	5	
	9	35	4	
3010	1	39	4	
	2	43	4	
	3	47	4	
	4	51	4	
	5	55	4	
	6	59	4	
	7	04	5	
	8	06	2	
	9	08	2	
	10	09	1	
3020	1	11	2	
	2	13	2	
	3	19	6	Conn.
	4	27	4	
	5	31	4	
	6	37	6	
	7	42	5	
	8	47	5	
	9	51	4	
	10	56	5	
3030	1	59	3	
	2	03	4	
	3	07	4	
	4	11	4	
	5	16	5	
	6	21	5	
	7	28	7	
	8	32	4	
	9	37	5	
	10	42	5	
3040	1	46	4	
	2	49	3	
	3	52	3	vis 41 w+9.8 w l-15.0
	4	58	6	LCM #1
	5	03	5	CFS DST #1 34' anc.
	6	07	5	
	7	17	5	
	8	23	6	
	9	28	5	
	10	33	5	
3050	1	38	5	

DATE	DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3050</del>	1	5:38	44	6
	2	49	5	
	3	55	6	3054 1784
	4	59	4	Conn. 1270
	5	6:04	05	1
	6	06	1	wake geol.
	7	06 1/2	1/2	
	8	06 3/4	1/4	
	9	07	1/4	
3060	1	07 1/2	1/2	
	2	08	1/2	
	3	08 1/2	1/2	
	4	08 3/4	1/4	
	5	09	1/4	
	6	12	3	CFS DST #2
	7	6:00	09	3
	8	12	3	20' Anchor
	9	17	5	Call me on blow
	10	22	3	
3070	1	26	4	
	2	32	6	
	3	37	5	
	4	41	5	
	5	46	5	
	6	50	4	
	7	54	4	
	8	59	5	
	9	7:04	5	
	10	08	4	
3080	1	12	4	
	2	17	5	
	3	20	3	
	4	25	5	
	5	30	5	
	6	35	5	
	7	41	4	
	8	47	3	
	9	51	4	
	10	56	5	
3090	1	8:01	5	
	2	06	5	
	3	10	4	
	4	14	4	
	5	18	4	
	6	22	4	
	7	28	6	
	8	34	6	
	9	38	4	
	10	43	5	
3100	1	48	5	

15-141-20274-00-00

COMPANY Leroy E Tobias FARM Sigle 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>3110</del>	<del>8:47</del>		
1	53	6	
2	57	4	
3	9:04	7	
4	10	6	
5	14	4	
6	18	4	
7	21	3	
8	23	2	
9	26	3	
3110	28	2	
1	32	4	
2	36	4	
3	39	3	
4	43	4	
5	47	4	
6	51	4	conn
7	<del>57</del>	3	
	10:00		
8	04	4	
9	08	4	
3120	12	4	CFS 30-
1	<del>10:53</del>	1	
2	54	1	
3	55	1	
4	56	1	
5	58	2	
6	59	1	
7	11:01	2	
8	02	1	
9	05	3	
3130	07	2	
1	09	2	CFS 30-60
2	<del>12:18</del>	2	
	20		
3	22	2	
4	25	3	
5	29	4	
6	33	4	
7	37	4	
8	41	4	
9	45	4	
3140	49	4	
1	52	3	
2	56	4	
3	1:00	4	
4	04	4	
5	08	4	
6	12	4	
7	15	3	Conn.
8	<del>20</del>	2	
	22		
9	27	5	
3150	30	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3150</del>	<del>1:30</del>		
1	34	4	
2	38	4	
3	42	4	
4	46	4	
5	49	3	
6	53	4	
7	57	4	
8	2:01	4	
9	05	4	
3160	09	4	
1	14	5	
2	17	3	
3	20	3	
4	24	4	
5	26	2	
6	30	4	
7	33	3	
8	35	2	
9	38	3	
3170	41	3	
1	44	3	
2	47	3	
3	50	3	
4	54	4	
5	57	3	
6	3:00	3	
7	03	3	
8	08	5	
9	11	3	Conn. Vis-42 WT-9.8
3180	<del>17</del>	3	WL-9.2 WT-1#
	20		
1	24	4	
2	27	3	
3	31	4	
4	34	3	
5	38	4	
6	42	4	
7	46	4	
8	50	4	
9	54	4	
3190	58	4	
1	4:00	2	
2	02	2	
3	06	4	
4	10	4	
5	14	4	
6	18	4	
7	21	3	
8	24	3	
9	27	3	
3200	30	3	

Wakp Geol @ 3210

COMPANY Leroy E. Tobias FARM Sigle 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>3200</del>	<del>4:30</del>		
1	33	3	
2	37	4	
3	41	4	
4	45	4	
5	49	4	
6	53	4	
7	56	3	
8	5:00	4	
9	03	3	
3210	05	2	Conn. Wake geol.
1	10/12	2	
2	13	1	
3	14	1	
4	15	1	
5	17	2	
6	21	4	
7	24	3	
8	27	3	
9	30	3	
3220	34	4	
1	37	3	
2	40	3	
3	43	3	
4	47	4	
5	52	5	
6	56	4	
7	6:00	4	
8	04	4	
9	07	3	
3230	10	3	
1	13	3	
2	16	3	
3	20	4	
4	24	4	
5	28	4	
6	32	4	
7	36	4	
8	40	4	
9	43	3	
3240	45	2	
1	50	5	Conn. - Sec. Rig
2	1:00/03	3	
3	06	3	
4	11	5	
5	15	4	
6	19	4	
7	24	5	
8	27	3	
9	31	4	
3250	33	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3250</del>	<del>33</del>		
1	36	3	
2	39	3	
3	42	3	
4	45	3	
5	48	3	
6	52	4	
7	56	4	
8	8:01	5	
9	07	6	
3260	12	5	
1	18	6	
2	23	5	
3	29	6	
4	35	6	
5	41	6	
6	47	6	
7	53	6	
8	58	5	
9	9:04	6	
3270	09	5	
1	15	6	
2	20	5	Conn.
3	27	5	
4	38	6	
5	43	5	
6	51	8	
7	55	4	
8	59	4	
9	10:02	3	
3280	07	5	
1	12	5	
2	17	5	
3	23	6	
4	28	5	Vis 38 WOT. 10.0
5	33	5	W.L. 12.0 LCM 1#
6	37	4	
7	41	4	
8	47	6	
9	51	4	
3290	56	5	
1	11:01	5	
2	05	4	
3	10	5	
4	15	5	
5	19	4	
6	24	5	
7	28	4	
8	32	4	
9	37	5	
3300	44	7	

