

STATE OF KANSAS  
STATE CORPORATION COMMISSION

Form CP-4

Give All Information Completely  
Make Required Affidavit  
Mail or Deliver Report to:  
Conservation Division  
State Corporation Commission  
P. O. BOX 17027  
Wichita, Kansas 67217

WELL PLUGGING RECORD

RENO

County, Sec. 5 Twp. 24 Rge. (E) 4W (W)

Location as "NE/CNW/SE/SW" or footage from lines SW SW SW

Lease Owner MARVIN LAWTON

Lease Name MORETHA MILLER Well No. #1

Office Address BOX 357 WICHITA, KANSAS 67201

Character of Well (completed as Oil, Gas or Dry Hole) OIL

Date well completed 4-2-69 1969

Application for plugging filed 2-28-74 1974

Application for plugging approved 2-28-74 1974

Plugging commenced 3-14-74 1974

Plugging completed 3-16-74 1974

Reason for abandonment of well or producing formation OIL DEPLETED

If a producing well is abandoned, date of last production 19

Was permission obtained from the Conservation Division or its agents before plugging was commenced? yes

Gilbert Toman

Name of Conservation Agent who supervised plugging of this well

Producing formation \_\_\_\_\_ Depth to top \_\_\_\_\_ Bottom \_\_\_\_\_ Total Depth of Well \_\_\_\_\_ Feet

Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE	PUT IN	PULLED OUT

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from \_\_\_\_\_ feet to \_\_\_\_\_ feet for each plug set.

PUSH PLUG TO 2800' with 30' Sand and 5 sack of cement.

Shot at 2629'-2592'-2539'.

ROCK BRIDGE FROM 215-200' with 3 yards ready mix.

RECEIVED  
STATE CORPORATION COMMISSION  
MAY 24 1974  
CONSERVATION DIVISION  
Wichita, Kansas

Name of Plugging Contractor DUNBAR DRILLING INC.  
Address 5252 North Broadway, Wichita, Kansas 67219

STATE OF KANSAS COUNTY OF SEDGWICK, ss.

W. P. SIMMONS

(employee of owner) or (owner or operator) of the above-described

well as filed and that the same are true and correct. So help me God.

(Signature) W. P. Simmons

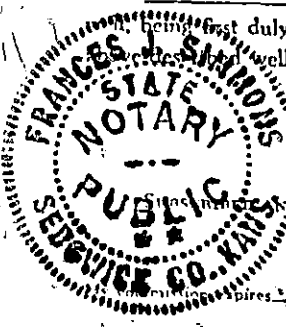
W. P. SIMMONS 5252 North Broadway, Wichita, Kansas 67219

Sworn to before me this 21st day of March, 1974

NOVEMBER 19, 1977

FRANCES J. SIMMONS

Notary Public.





RECEIVED  
STATE CORPORATION COMMISSION

FEB 28 1974

DONALD HOY SMITH  
PETROLEUM GEOLOGIST  
5401  
2000 PLAZA LANE  
WICHITA 8, KANSAS

CONSERVATION DIVISION  
Wichita, Kansas  
TELEPHONE MURRAY 2-7943  
IF NO ANSWER CALL FOREST 3-1384

April 2, 1969

GEOLOGICAL REPORT

Woco, Inc.  
No. 1 Moretha Miller  
SW SW SW Section 5-24S-4W  
Burrton Field  
Reno County, Kansas

Elevation: 1481 KB  
1478 DF (I&S)  
1476 GL  
Contractor: Wofford Drilling Company  
Spud: 3-26-69; 8-5/8" csg. @ 566 w/400sx Posmix  
Completed: 4-2-69; 5-1/2" csg. @ 3409  
w/125 sx Posmix

Depth Reference Datum: Top Kelly Bushing  
Samples Saved: 10-foot 1500'-3330'  
5-foot 3330'-3410', T.D.  
Samples Examined: Same

Drilling Time Recorded:  
1-foot time 1500'-3410', T.D.  
Drilling Observed:  
2230'-3075' and 3270'-3410', T.D.

FORMATION TOPS, NOTABLE ZONES & TESTING DATA  
(\*Denotes Oil Showing or Staining or Gas Odor)

	<u>Depth below</u> <u>Surface</u>	<u>Depth below</u> <u>Sea Level</u>
TARKIO LIME	1687	-206
ELMONT LIME	1731	-250
HOWARD LIME	1914	-433
TOPEKA LIME	2043	-562

Lime, white and buff finely crystalline partly fossiliferous sub-chalky with some coarse calcite - slight traces of good vugular porosity, no show

2280-83

OREAD LIME

2345

-864

\*Lime, white finely crystalline sub-chalky with associated coarse calcite - traces poor vugular porosity; trace chert, white-light gray. Note: One piece of lime as described with associated coarse calcite and a good show of free oil was noted in the 2360-70 drilling sample. This show is believed to have come from this zone).

2345-50

?Lime, white finely crystalline sub-chalky with associated coarse calcite - traces poor vugular porosity, no show; small amount of dolomite, buff finely sucrosic with possibly some poor to fair inter-crystalline porosity - one piece with questionable light oil staining and light fluorescence, no show in wet samples

2389-99

Page 2 - Geological Report  
 Woco, Inc. #1 Moretha Miller  
 SW SW SW Sec. 5-24S-4W  
 Reno County, Kansas

HEEBNER SHALE	2432	-951
DOUGLAS SAND (Clean Sand)	2554	-1073
Sand, light gray fine-grained micaceous friable - fair to possibly good porosity, no show	2554-86	
Sand, light gray fine to medium-fine grained, micaceous with some green and black micaceous partings - fair to good porosity, no show	2591-2605	
BROWN LIME	2613	-1132
LANSING LIME	2629	-1148
*Lime, white finely crystalline fossiliferous with traces coarse calcite - two pieces with poor vugular porosity, small shows of free oil, light spotted staining	2629-34	
Lime, cream-white to buff finely crystalline to finely sucrosic sub-chalky with associated calcite - few traces poor vugular and pin point porosity, no show; chert, gray to tan	2718-29	
Lime, cream-white finely crystalline fossiliferous with traces oolites and calcite and buff finely sucrosic - slight traces poor vugular and pin point porosity, no show; chert, gray to tan	2737-45	
Lime, cream to buff to white finely crystalline oolitic fossiliferous and buff finely sucrosic - scattered poor to fair sub-oolicastic, pin point and vugular porosity, no show; chert, as above	2766-2801	
Lime, white - light gray and buff finely crystalline sub-chalky with traces oolites and coarse calcite and cream finely sucrosic - slight traces poor vugular porosity, no show	2821-30	
KANSAS CITY LIME	2851	-1370
Lime, white to buff coarsely oolitic in part - scattered poor to fair vugular and sub-oolicastic porosity, no show; chert, light gray to buff fossiliferous vitreous	2851-57	
Lime, white-light gray to buff oolicastic with trace coarse oolites, no show and some cream-buff finely sucrosic, no show	2969-73	
*Lime, white-light gray to buff oolicastic - very scattered traces with small to fair shows of free oil and light spotted staining	2982-89	

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 Woco, Inc. #1 Moretha Miller  
 SW SW SW SEC 5-24S-4W  
 Reno County, Kansas

Lime, white oolitic with sucrosic texture, no show	3017-25	
BASE KANSAS CITY LIME	3070	-1589
Lime, white-light gray oolitic fossiliferous brittle sub-chalky - slight traces of isolated oolite casts and traces oolitic porosity, no show (?Is oolitic lime lag ); lime, gray to buff oolitic - no porosity, no show	3184-3202	
CHEROKEE	3233	-1752
PENNSYLVANIAN BASAL CONGLOMERATE	3321	-1840
Shales, vari-colored and some soft soluble yellow and red shale; traces chert, amber semi-translucent and white devitrified, no show	3321-29	
PENNSYLVANIAN BASAL CONGLOMERATE CHERT ZONE	3329	-1848
*Shales, vari colored, bright red soluble and hema- tite-red with some amorphous hard hematite; chert, amber, buff and white - abundant good honeycomb porosity, numerous small to fair shows of free oil, traces good shows of free oil, light spotted stain- ing	3329-42	
MISSISSIPPI (Warsaw)	3342	-1861
Lime, light gray to white and yellow coarsely crystalline glauconitic; chert, white and amber fossiliferous smooth to devitrified, no show	3342-47	
*Dolomite, yellow and light gray finely sucrosic - considerable fair and traces of good vugular porosity, small shows of free oil, fair and some good staining; chert, white-light gray fossiliferous - traces devi- trified with slight vugular porosity and light spotted staining	3347-51	
Lime, and dolomitic-lime, yellow to light gray coarse to fine crystalline; chert, white-light gray fossiliferous, no show	3351-53	
*Dolomite, yellow and light gray finely sucrosic - scattered poor vugular porosity, small shows of free oil, light spotted staining; some dolomite, light gray finely sucrosic siliceous tight; chert, light gray to white and buff fossiliferous sharp to slightly devitrified, no show	3353-59	

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 Woco, Inc. #1 Moretha Miller  
 SW SW SW Sec 5-24S-4W  
 Reno County, Kansas

*Lime, light gray and yellow coarse crystalline to fine crystalline dolomitic; dolomite, yellow to light gray finely sucrosic - traces poor vugular porosity, small shows free oil and light spotted staining; some dolomite, gray, greenish-gray, brown and dull red finely sucrosic shaley to siliceous tight; abundant chert, light gray to white and traces amber and orange smooth fossiliferous to partly weathered, no show	3359-70	
OSAGE CHERT ZONE	3370	-1889
*Chert, white devitrified to tripolitic - abundant fair to good pin point to vugular porosity and fair to good shows of gassy free oil, fair and some good staining, light odor	3370-80	
*Chert, as above with considerable porosity, shows of free oil and staining as above but with decrease in quantity; increase in white to light gray tight chert	3380-87	
*Chert, white very tripolitic to devitrified - scattered poor to fair pin point to vugular porosity, small to fair shows of free oil; intercalated dolomite, white-light gray finely sucrosic with traces of small shows of free oil, predominantly tight	3387-96	
*Chert, white blocky tight and white devitrified to tripolitic - scattered poor to fair porosity, shows of free oil and staining ( traces good porosity and shows free oil-believe lag); intercalated dolomite, light gray finely sucrosic - slight traces of porosity and staining; traces lime, yellow medium crystalline in chert	3396-3407	
*Ditto and chert, amber-white, buff-white and light gray vitreous sharp tight	3407-10	
ROTARY TOTAL DEPTH	3410	-1929
5-1/2 Inch casing cemented with 125 sacks Postmix at	3409	-1928



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Woco, Inc. #1 Moretha Miller  
SW SW SW SEC 5-24S-4W  
Reno County, Kansas

WELEX RADIATION - GUARD LOG TOPS

Tarkio Lime	1685 (-204)	Lansing Lime	2628 (-1147)
Elmont Lime	1730 (-249)	Kansas City Lime	2850 (-1369)
Reading Lime	1754 (-273)	Base Kansas City Lime	3067 (-1586)
Howard Lime	1915 (-434)	Cherokee	3225 (-1744)
Topeka Lime	2043 (-562)	Penn. Basal Conglomerate	3321 (-1840)
Deer Creek Lime	2122 (-641)	Penn. Basal Cong. Chert Zone	3329 (-1848)
Oread Lime	2345 (-864)	Mississippi (Warsaw)	3343 (-1862)
Heebner Shale	2432 (-951)	Osage Chert Zone	3370 (-1889)
Douglas Sand (clean)	2563 (-1082)	Welex Total Depth	3409 (-1928)
Brown Lime	2614 (-1133)		

REMARKS:

The Osage Chert Zone was encountered 4' higher structurally than in #1 Abbott, west offset. The upper portion of this zone between 3370-3380 contained abundant fair to good porosity and shows of free oil and should be perforated in the top 7' or 8'.

Portions of the Warsaw section which contained porosity and oil showings as previously described probably warrant evaluation prior to abandonment of #1 Miller. Based on Welex Radiation-Guard Log measurements it is recommended that the following intervals be perforated and tested: 3347'-3352' and 3354'-3360'.

Although the Pennsylvanian Basal Conglomerate Chert Zone may lack sufficient permeability to produce, evaluation is believed warranted on the basis of the good porosity and small to good oil shows logged in it. Based on Welex Radiation-Guard Log measurements it should be perforated in the following interval: 3330'-3339'.

Although it is believed very probable that the previously-described Kansas City oolitic lime zone between 2982'-2989' contained insufficient oil saturation to yield commercial oil production, this zone could be evaluated by perforating on Welex measurements between 2982'-2990'.

The Lansing zone between 2629'-2634' which contained two slight traces of oil is considered non-commercial and not to warrant testing. Likewise, the Oread zone between 2345'-2350' which was believed to contain one show of oil and a second Oread zone between 2389'-2399' which contained one questionable trace of staining, both are considered non-commercial.

Yours very truly,

Don H. Smith  
Petroleum Geologist

TIME LOG

April 2, 1969

Woco, Inc.  
 No. 1 Moretha Miller  
 SW SW SW Section 5-24S-4W  
 Burrton Field  
 Reno County, Kansas

Drilling Time Recorded: 1-foot time 1500'-3410', T.D.

Depth	Time										Remarks
1500-1510	2	1	1	2	2	1	2	2	2	2	
1510-1520	1	1	2	2	2	1	1	1	2	2	
1520-1530	1	1	2	2	2	2	1	2	1	1	
1530-1540	1	1	1	1	1	3	3	2	2	2	
1540-1550	2	2	3	3	3	4	2	1	2	2	
1550-1560	3	3	2	2	2	2	4	3	3	3	Trip at 1561
1560-1570	4	1	1	1	1	1/2	1/2	1	1/2	1/2	
1570-1580	1	1	1	1	1	1	1	1	1	1	
1580-1590	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1	1	1	
1590-1600	1/2	1	1	1	1	1	1	1	1	1	
1600-1610	1	1	1	1	1	1	1	1	1	1	
1610-1620	1	1	1	1	1	1	1	1	1	1	
1620-1630	1	1	1	1	1	1	1	1	1	1	
1630-1640	1	1	1	1	1	1/2	1/2	1	1	1/2	
1640-1650	1/2	1/2	1/2	1	1	1/2	1/2	1/2	1/2	1/2	
1650-1660	1	1	1	1	1	1	1	1	1	1	SR 1660
1660-1670	1/2	1/2	1	1	1	1	1	1	3	2	SR 62-65
1670-1680	1	2	1	1	1	2	1	2	1	1	
1680-1690	1	1	1	1	1	1	1	2	2	3	
1690-1700	3	2	2	2	2	1	2	1	2	1	
1700-1710	2	1	2	1	1	2	1	1	2	2	
1710-1720	3	2	1	1	1	1	2	1	1	1	
1720-1730	2	1	1	1	1	1	1/2	1/2	1	1	
1730-1740	1	2	2	2	2	1	1	2	1	3	
1740-1750	2	2	3	3	3	2	1	2	1	2	
1750-1760	1	2	1	1	2	1	2	2	2	2	
1760-1770	1	2	1	1	1/2	1/2	1	1	2	2	
1770-1780	1	1	1	2	1	2	1	1	2	2	
1780-1790	1	2	2	1	2	2	2	1	3	4	
1790-1800	3	3	3	2	1	2	1	1	2	2	
1800-1810	2	2	2	2	1	1	2	2	2	1	
1810-1820	2	3	4	3	2	3	1	2	1	2	
1820-1830	2	2	2	2	2	3	2	2	2	1	
1830-1840	1	2	2	2	1	1	2	1	1	2	
1840-1850	2	2	2	1	2	2	1	1	2	1	
1850-1860	2	4	2	1	1	2	2	1	1	1	
1860-1870	2	1	2	2	1	2	1	2	1	1	
1870-1880	1	2	1	1	1	1	2	1	1	1	
1880-1890	1	2	1	1	1	1	1	2	1	2	
1890-1900	1	1	1	1	1	1	1	1	1	1	
1900-1910	1	1	1	1	1	1	2	1	1	1	
1910-1920	1	1	1	1	3	4	3	3	3	2	
1920-1930	2	2	2	1	2	3	2	3	2	1	
1930-1940	1	2	2	2	2	1	1	1	2	1	
1940-1950	2	2	2	2	1	2	3	3	5	2	

AND  
ON

AND  
ON

AND  
ON

AND  
ON

Woco, Inc. No. 1 Moretha Miller  
SW SW SW Sec 5-24S-4W  
Reno County, Kansas

Time Log, Page 2

1950-1960	3- 2- 2- 2- 2- 2- 4-3- 2- 2
1960-1970	2- 2- 1- 1- 2- 1- 2- 2- 2- 2
1970-1980	2- 2- 3- 2- 3- 2- 4- 3- 1- 1
1980-1990	1- 1- 1- 1- 1- 1- 2- 1- 1- 1
1990-2000	$\frac{1}{2}$ - $\frac{1}{2}$ - 1- 1- 1- 1- 1- 1- 1- 1
2000-2010	2- 2- $\frac{1}{2}$ - $\frac{1}{2}$ - 2- 2- 2- 3- 1- 2
2010-2020	1- 1- 1- 2- 2- 2- 2- 2- 2- 1
2020-2030	1- $\frac{1}{2}$ - $\frac{1}{2}$ - 1- 1- 2- 2- 2- 2- 2
2030-2040	1- 2- 2- 1- 2- 2- 1- 1- 1- 1
2040-2050	1- 1- 1- 3- 2- 3- 3- 3- 3- 3
2050-2060	2- 2- 2- 4- 2- 2- 2- 2- 2- 2
2060-2070	2- 2- 1- 2- 2- 3- 2- 2- 2- 2
2070-2080	2- 2- 2- 1- 2- 2- 2- 2- 1- 1
2080-2090	2- 2- 2- 1- 2- 2- 1- 2- 2- 2
2090-2100	2- 2- 2- 2- 2- 2- 2- 2- 1- 2
2100-2110	1- 2- 1- 1- 1- 1- 2- 2- 2- 1
2110-2120	1- 1- 1- 1- $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - 1- 1- 1
2120-2130	1- 1- 2- 1- 1- 1- 1- 1- 1- 1
2130-2140	2- 2- 2- 1- 1- 2- 2- 2- 3- 2
2140-2150	2- 2- 2- 2- 2- 2- 2- 2- 2- 3
2150-2160	2- 2- 3- 3- 2- 2- 3- 2- 3- 3
2160-2170	4- 2- 2- 2- 2- 1- 2- 2- 1- 2
2170-2180	1- 2- 3- 2- 3- 2- 3- 3- 2- 2
2180-2190	1- 2- 2- 3- 2- 2- 2- 2- 2- 2
2190-2200	3- 3- 3- 3- 3- 3- 2- 3- 3- 3
2200-2210	3- 3- 3- 3- 3- 3- 3- 4- 4- 3
2210-2220	3- 3- 2- 2- 1- 1- 2- 2- 2- 2
2220-2230	2- 2- 3- 3- 3- 4- 3- 3- 2- 2
2230-2240	2- 2- 1- 2- 2- 2- 2- 2- 3- 3
2240-2250	2- 2- 2- 2- 3- 2- 3- 4- 3- 3
2250-2260	3- 3- 3- 2- 2- 2- 1- 1- 1- 1
2260-2270	1- 2- 2- 1- 2- 1- 2- 2- 1- 1
2270-2280	2- 2- 3- 2- 2- 2- 2- 3- 2- 2
2280-2290	1- 1- 2- 3- 2- 3- 2- 3- 3- 3
2290-2300	2- 1- 1- 2- 2- 2- 2- 2- 1- 1
2300-2310	2- 2- 2- 2- 2- 2- 2- 3- 2- 3
2310-2320	2- 3- 3- 4- 3- 4- 3- 4- 3- 2
2320-2330	2- 2- 3- 2- 2- 3- 2- 3- 2- 3
2330-2340	2- 2- 2- 2- 2- 2- 3- 1- 2- 2
2340-2350	2- 1- 2- 1- 2- $\frac{1}{4}$ - $\frac{1}{4}$ - $\frac{1}{4}$ - $\frac{1}{4}$ - 1
2350-2360	2- 3- 3- 2- 3- 4- 3- 2- 3- 3
2360-2370	4- 3- 2- 3- 4- 4- 4- 4- 4- 4
2370-2380	3- 3- 4- 3- 3- 4- 4- 4- 3- 3
2380-2390	3- 2- 2- 2- 2- 2- 1- 2- 2- 1
2390-2400	1- 1- 1- 1- 2- 1- 3- 2- 2- 1
2400-2410	2- 1- 2- 2- 2- 1- 2- 2- 2- 3

Trip at 2054

SR 2127



Woco, Inc. No. 1 Moretha Miller  
SW SW SW Sec 5-24S-4W  
Reno County, Kansas

Time Log, Page 3

2410-2420	2-2-3-2-3-4-3-3-3-3
2420-2430	4-4-4-1-2-1-1-1-1-2
2430-2440	1-1-1/2-1/2-1-1-1-4-2-2
2440-2450	1-1-2-1-2-2-2-2-2-2
2450-2460	1-2-1-2-2-1-1-2-2-2
2460-2470	2-1-2-2-2-2-2-2-2-3
2470-2480	2-2-2-2-2-2-1-2-2-1
2480-2490	2-2-2-2-3-3-2-3-3-4
2490-2500	3-4-3-3-3-2-1-1-2-2
2500-2510	2-2-2-1-2-2-2-2-2-1
2510-2520	2-2-3-5-3-2-1-2-2-2
2520-2530	2-3-2-2-2-2-2-2-2-2
2530-2540	2-3-2-1-2-2-2-2-2-1
2540-2550	2-1-1-1-2-1-1-1-2-1
2550-2560	1-1-1-1-1/2-1/2-1/2-1/2-1-1
2560-2570	1-1-3-1/2-1/2-1/2-1/2-1-1/2-1/2
2570-2580	1-1-1/2-1/2-1-1/2-1/2-1-1-1
2580-2590	1-1/2-1/2-1-1/2-1/2-1/2-1-1/2
2590-2600	2-1-1-1-1-1-1-2-1-1
2600-2610	1-1/2-1/2-1/2-1/2-4-3-2-2-1
2610-2620	2-1-2-3-3-4-4-4-2-2
2620-2630	3-3-3-2-2-3-3-3-4
2630-2640	3-2-3-3-4-4-4-5-4-5
2640-2650	4-4-4-4-4-4-5-4-4-4
2650-2660	4-3-3-4-3-5-5-5-3-4
2660-2670	5-5-3-4-4-5-5-6-5-6
2670-2680	5-6-4-5-5-6-6-4-6-6
2680-2690	7-6-7-7-6-7-7-6-5-6
2690-2700	5-5-4-6-8-8-7-7-8-8
2700-2710	10-12-4-3-3-3-3-3-2
2710-2720	3-2-3-3-3-3-3-2-1
2720-2730	1-1-2-1-2-1-1-2-2-3
2730-2740	4-3-3-3-3-3-3-2-1-1
2740-2750	2-1-1-2-1-4-3-2-3-2
2750-2760	2-3-3-2-2-2-1-3-3-3
2760-2770	3-4-3-3-3-3-2-1-2-2
2770-2780	1-1-1-1/2-1/2-1-1-1-1-1
2780-2790	2-1-2-2-2-2-2-1-1-2
2790-2800	1-2-1-1-2-1-2-2-2-2
2800-2810	1-2-3-3-4-2-3-3-2-4
2810-2820	2-2-2-3-3-4-4-4-3-3
2820-2830	3-2-2-2-1-2-2-2-2-1
2830-2840	2-2-2-2-3-2-3-1-2-3
2840-2850	2-2-2-3-3-5-5-4-4-2
2850-2860	2-1-3-1-1-1-2-3-4-4
2860-2870	2-4-3-3-3-3-4-2-2-2
2870-2880	3-4-3-4-4-4-4-4-4-4
2880-2890	3-4-4-3-4-2-4-3-4-3
2890-2900	3-5-5-3-4-4-4-4-3-4

Trip at 2423

SR 99

Trip at 2702; Strap Drill  
Pipe: Measurements O.K.

SR 2 and 3

R 24 and SR 25

Woco, Inc. No. 1 Moretha Miller  
 SW SW SW Sec 5-24S-4W  
 Reno County, Kansas

Time Log, Page 4

2900-2910	3- 4- 3- 2- 2- 1- 2- 3- 3- 3	
2910-2920	3- 5- 3- 3- 3- 2- 3- 3- 2- 3	SR 11 to 17
2920-2930	2- 3- 4- 3- 3- 4- 3- 3- 4- 4	
2930-2940	3- 3- 4- 3- 3- 4- 4- 3- 3- 3	
2940-2950	4- 3- 3- 5- 4- 3- 4- 4- 5- 5	
2950-2960	4- 4- 5- 5- 4- 4- 4- 4- 4- 4	
2960-2970	4- 4- 3- 4- 3- 3- 3- 3- 3- 2	
2970-2980	2- 2- 2- 3- 3- 4- 3- 4- 3- 3	
2980-2990	1½-1½- 1- 1- 1- 1- ½- 1- 1- 3	Circ. 45 min at 2987
2990-3000	4- 3- 3- 3- 2- 2- 3- 3- 4- 3	
3000-3010	3- 3- 3- 4- 4- 4- 4- 5- 4- 1	
3010-3020	2- 2- 4- 5- 5- 5- 3- 2- 1- 1	
3020-3030	½- ½- 1- 1- 1- 4- 3- 3- 4- 3	Circ. 45 min at 3024
3030-3040	4- 3- 3- 3- 4- 4- 4- 3- 2- 3	
3040-3050	4- 4- 4- 5- 4- 5- 4- 4- 5- 4	
3050-3060	4- 4- 4- 4- 5- 5- 6- 6- 4- 4	
3060-3070	6- 4- 4- 5- 4- 5- 4- 4- 4- 4	
3070-3080	2- 1- 2- 2- 2- 3- 4- 4- 4- 5	
3080-3090	4- 3- 3- 4- 3- 4- 4- 4- 4- 4	R 81
3090-3100	4- 4- 5- 5- 4- 5- 4- 3- 3- 4	
3100-3110	4- 3- 4- 4- 4- 4- 4- 3- 4- 3	
3110-3120	3- 3- 2- 3- 3- 3- 3- 3- 4- 3	
3120-3130	4- 4- 4- 3- 4- 3- 4- 4- 4- 4	
3130-3140	4- 5- 5- 5- 5- 6- 6- 6- 6- 10	Trip at 3140 SV2
3140-3150	2- 4- 3- 5- 3- 2- 2- 2- 1- 1	
3150-3160	2- 2- 2- 5- 3- 3- 4- 3- 3- 4	
3160-3170	4- 4- 3- 3- 4- 4- 4- 4- 4- 4	
3170-3180	3- 4- 3- 4- 3- 2- 5- 3- 4- 4	
3180-3190	4- 3- 3- 4- 3- 3- 3- 3- 4- 4	SR 85
3190-3200	4- 4- 5- 4- 5- 5- 3- 3- 3- 3	
3200-3210	2- 3- 2- 2- 2- 2- 2- 3- 3- 4	
3210-3220	4- 4- 4- 4- 4- 5- 4- 4- 5- 4	
3220-3230	4- 3- 4- 4- 5- 3- 3- 4- 4- 2	
3230-3230	3- 3- 5- 2- 3- 2- 2- 2- 2- 4	
3230-3240	2- 2- 3- 3- 2- 3- 2- 2- 3- 3	
3240-3250	5- 4- 3- 3- 3- 3- 3- 5- 4- 4	
3250-3260	5- 4- 3- 3- 3- 3- 3- 5- 4- 4	
3260-3270	3- 3- 3- 2- 3- 3- 3- 3- 3- 3	
3270-3280	4- 4- 5- 3- 3- 4- 4- 4- 4- 4	
3280-3290	4- 3- 3- 3- 2- 2- 3- 3- 3- 3	
3290-3300	3- 2- 3- 2- 3- 3- 3- 4- 5- 4	
3300-3310	4- 4- 3- 4- 4- 3- 4- 4- 4- 3	
3310-3320	3- 4- 3- 3- 3- 4- 3- 4- 5- 5	
3320-3330	5- 4- 4- 5- 5- 5- 4- 5- 5- 4	
3330-3340	3- 4- 3- 4- 5- 5- 4- 6- 6- 7	
3340-3350	8- 5- 6- 6- 8- 7- 7- 5- 6- 3	
3350-3360	3- 7- 9- 4- 3- 2- 2- 2- 3- 6	
3360-3370	6- 5- 5- 6- 7- 5- 5- 6- 8- 6	
3370-3380	10- 4- 6- 3- 4- 3- 2- 2- 4- 2	
3390-3400	2- 2- 3- 2- 3- 3- 4- 6- 4- 3	
3400-3410 T.D.	5- 9- 7- 6- 7- 7- 7- 3- 4- 6	SR 62; SR 68-69; 70-71R; SR71-72; XM; Circ 75 min 3378; R72-73; SR 73-74; R74-75; SR75-83; SR84-87 Circ. 60 min at 3410

Don H. Smith, Petroleum Geologist