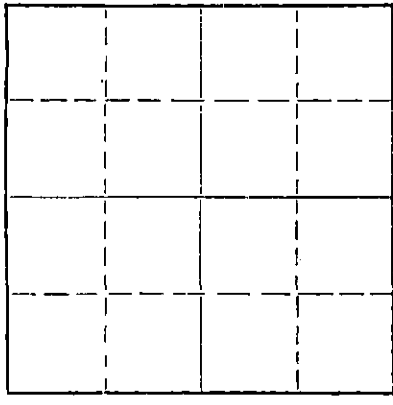


STATE OF KANSAS CORPORATION COMMISSION

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

WELL PLUGGING RECORD

Kerney County, Sec. 10 Twp. 21S. Rge. 38 (E) (W) X Location as "NE/CNW/SW%" or footage from lines S.E. N.W. Lease Owner Tesoro Petroleum Corporation Lease Name Marion Well No. 1-10 Office Address 8520 Crownhill San Antonio, Texas 78286 Character of Well (completed as Oil, Gas or Dry Hole) Oil Date well completed 19 Application for plugging filed 6-15 1973 Application for plugging approved 6-19 1973 Plugging commenced 9-26 1973 Plugging completed 10-1 1973 Reason for abandonment of well or producing formation



Locate well correctly on above Section Plat

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

Name of Conservation Agent who supervised plugging of this well Ed Eyes Producing formation Depth to top Bottom Total Depth of Well 5582 Feet Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

Table with 7 columns: FORMATION, CONTENT, FROM, TO, SIZE, PUT IN, PULLED OUT. Contains data for casing sizes 5 1/2 and 8 5/8.

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.

25 sks. of cement @ 3650 35 sks. of cement @ 322 to 222 15 sks. of cement @ 45 to 0

RECEIVED STATE CORPORATION COMMISSION DEC 19 1973 CONSERVATION DIVISION Wichita, Kansas

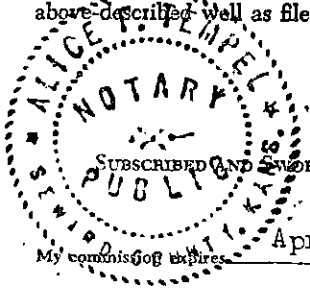
(If additional description is necessary, use BACK of this sheet) Name of Plugging Contractor Sargents Casing Pulling Service Kansas No. 511 Address Box 506 Liberal, Kansas 67901

STATE OF Kansas, COUNTY OF Seward, ss. Robert Sargent (employee of owner) or (owner or operator) of the above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God.

(Signature) Robert Sargent

(Address)

SUBSCRIBED AND SWORN to before me this 18th day of December, 1973



Alice F. Temple Notary Public.

My commission expires April 1, 1977

## FINAL WELL REPORT

## SAMPLE DESCRIPTION\*

WELL NAME: P.E.I. 1-10 Marion WELLSITE GEOLOGIST: R. C. Myers  
(OPERATOR) (WELL No.) (FARM NAME)

LOCATION: SE NW 10 21S 38W Kearny Kansas  
(SPOT or FOOTAGE) (SEC.) (TWP) (RNG) (COUNTY) (STATE)

DEPTH	LITHOLOGY	REMARKS
	18" Conductor pipe set at 45'	Pleistocene Series Surface
60 - 90	Claystn wh soft, tr Sh dk gry soft	Pliocene Series 40 - ?
90 - 120	Gravel crs-peb size, Claystn, as above	Creataceous Top?
		Lost Circ @ 120' Drilled hole dry to 338'. No samples 120' to 460'
460 - 90	Sh dk gry-blk soft, some mot & white speckled	
490 - 520	Same, tr Gypsum	
520 - 50	Same, tr Anhyd wh, hd	
550 - 80	Sh dk gry platey, Mica. Tr blk carb fiss	
580 - 610	20% SS, wh fn grn sub rdd, tite, hd, N. S. 80% Sh blk-dk gry platey	
610 - 40	25% SS, as above, vy Pyrtc; 50% Sh, dk gry 25% Siltstn lt gry buff	
640 - 70	Same	
670 - 700	50% Siltstn, lt gry hd, 50% Sh dk gry-blk soft	
700 - 30	Same; tr Ls buff den	
730 - 60	Same, very fine grain	
760 - 90	75% SS, lt gry sli calc & pyrte, hard, 25% Sh, as above	
790 - 820	Same	
820 - 50	75% Sh, gry-lt gry, soft 25% SS, as above	
850 - 80	Same, much pyr	
880 - 910	Same	
910 - 40	Same	
940 - 70	Same; tr Anhyd, wh amorph, No show	
970 - 1000	40% SS, Qtz fn gr sub-rdd, <u>No Fluor</u> ; 60% Sh dk gry platey, soft	
1000 - 30	Same; tr Sh brite green soft	
1030 - 60	Sh brite grn & red varigated, tr Ls buff den, SS, wh vy fn gr, some loose med-crs grn	

RECEIVED  
STATE CORPORATION COMMISSION  
JUN 14 1973  
CONSERVATION DIVISION  
Wichita, Kansas

PERMIAN SYSTEM  
NIPPEWALLA GROUP  
782' (+2976)

\*DESCRIPTION CORRECTED FOR LAG: YES  NO

# FINAL WELL REPORT

## SAMPLE DESCRIPTION\*

WELL NAME: P.E.I. 1-10 Marion WELLSITE GEOLOGIST: J  
(OPERATOR) (WELL No.) (FARM NAME)

LOCATION: SE NW 10 21S 38W Kearny Kansas  
(SPOT or FOOTAGE) (SEC.) (TWP) (RNG) (COUNTY) (STATE)

DEPTH	LITHOLOGY	REMARKS
1060 - 90	Sh, mostly dk gry, some varigated	
1090 - 1120	Sh, <u>Orange Red</u> and dk gry platey (Fm change)	
1120 - 50	90% as above, some brite grn-red varig; 10% Anhyd wh amorph	
1150 - 80	Sh, maroon, gry and gry, platey, soft; tr Anhyd as above	
1180 - 1210	Sh, varigated, as above; 10% Anhyd wh amorph	
1210 - 40	As above	
1240 - 70	As above; tr SS vy fn grn, tite	
1270 - 1300	As above	
1300 - 30	As above	
1330 - 60	Skip	
1360 - 90	Sh, maroon-orange red, lt green, dk gry platey, soft	
1390 - 1420	Same, tr pyrite	
1420 - 50	Same, tr SS vy fn gr, soft No Show.	
1450 - 80	SS, vy gn gr to silty, orange red, soft	
1480 - 1510	50% Anhyd wh amorph; 50% SS orange red as above	
1510 - 40	50% Anhyd as above 25% SS, as above 25% SH, varigated	
1540 - 70	75% Anhyd as above 25% Sh, as above	
1570 - 1600	Same	
1600 - 30	Same	
1630 - 60	Same	
1660 - 90	75% Sh brk red-gry & grn varig; 25% Anhyd as above	
1690 - 1720	Same	
1720 - 50	Same	
1750 - 80	Same	
1780 - 1810	Same; Anhyd slf pink	

\*DESCRIPTION CORRECTED FOR LAG: YES , NO

# FINAL WELL REPORT

## SAMPLE DESCRIPTION\*

WELL NAME 2109 1-13 Marion WELLSITE GEOLOGIST: R. C. Myers  
(FARM NAME)

LOCATION 10 21S 38W Kearny Kansas  
(TWP) (RNG) (COUNTY) (STATE)

	LITHOLOGY	REMARKS
1810 - 40	Same	
1810 - 70	Same	
1870 - 1900	5% Sd med gr rdd to sub-rdd, loose-friable, No show 70% Sh 5% Anhyd	
1900 - 30	Same	
1930 - 60	Same	
1960 - 90	Same	
1990 - 2000	10% SS, f-v f grn, Qtz wh-gry calc 90% Sh, as above	
2000 - 10	Same	
2010 - 20	Same	
2020 - 30	Same	
2030 - 40	90% Sh brick red, dk gry & lt grn; tr Pyrite 10% Anhyd wh-amorph	
2040 - 50	Same	
2050 - 60	Same, tr SS, wh-lt gry vy f-silty, some loose - calc	
2060 - 70	Same	
2070 - 80	Same	
2080 - 90	Same	
2090 - 2100	Same; tr Siltstn gry soft	
2100 - 10	Same; tr SS v fn gr Pyrte	SUMNER GROUP STONE CORRAL 2109 (+1269)
2110 - 20	Same	
2120 - 30	Sh red, lt grn & dk gry varigated, blocky, soft tr SS v f gr calc	
2130 - 40	Same; tr anhyd wh amorph	
2140 - 50	Same	
2150 - 60	Same	
2160 - 70	5% Sd Qtz, sub-rdd-sub ang loose, no show 95% as above	
2170 - 80	95% Sh, grn-red, gy block, as above 5% Sd	

\*DESCRIPTION CORRECTED FOR LAG: YES  NO

## FINAL WELL REPORT

## SAMPLE DESCRIPTION\*

WELL NAME: P.E.I. 1-10 Marion WELLSITE GEOLOGIST: R. C. Myers  
(OPERATOR) (WELL NO) (TAXID NAME)

LOCATION SE 1/4 10 21S 38W Wearny Kansas  
(1/4 OF FOOTAGE) (SEC.) (TWP) (RNG) (COUNTY) (STATE)

DEPTH	LITHOLOGY	REMARKS
2180 - 90	Same	BASE STONE CORRAL 2208 (+1170)
2190 - 2200	Same	
2200 - 10	Same	
2210 - 20	10% SS, v f grn wh-lt grn, soft, no show 90% Sh varigated as above	Trip @ 2210
2220 - 30	50% Anhydrite wh-lt gry amorph; 50% Sh as above, increase in lt grn Sh	
2230 - 40	Same w/ some pink; 50% Sh as above	
2240 - 50	Same	
2250 - 60	75% Anhyd as above 25% Sh as above tr <u>Sd Qtz crs</u> , <u>ang-sub ang</u> , <u>loose</u>	
2260 - 70	Same	
2270 - 80	50% Anhyd as above 50% Sh as above	
2280 - 90	Same	
2290 - 2300	Same, tr Ls tan-gry xln	
2300 - 10	50% Anhyd, tan-clear to milky & opaque 50% Sh varigated	
2310 - 20	20% Siltstn dk gry-blk argil; 40% Anhyd 40% Sh, as above	
2320 - 30	90% Sh brick red, soft 10% Anhyd as above	
2330 - 40	Same, Tr Siltstn lt grn, soft	
2340 - 50	Same, Tr Sh blk platey	
2350 - 60	80% Sh as above 10% Siltstn red argil 10% Anhyd	
2360 - 70	Same	
2370 - 80	Same	
2380 - 90	Same	
2390 - 2400	Same	

\*DESCRIPTION CORRECTED FOR LAG: YES , NO

## FINAL WELL REPORT

## SAMPLE DESCRIPTION\*

WELL NAME 1-10 Marion WELLSITE GEOLOGIST: R. C. Myers  
 LOCATION 10 21S 33W Kearny Kansas  
 (WELL NO.) (FARM NAME) (COUNTY) (STATE)  
 (SEC.) (TWP) (RNG)

DEPTH	LITHOLOGY	REMARKS
2400 - 10	75% Sh red soft 10% ss fr gr Qtz loose, 15% Anhyd	TOP WELLINGTON 2406 (+ 970)
2410 - 20	Same	
2420 - 30	Same	
2430 - 40	Same	
2440 - 50	80% Sh red soft 10% Silesten, red soft 10% Anhyd, wh amorph	
2450 - 60	90% Sh brick red soft, 10% Anhydr wh-pk	
2460 - 70	Do some green Sh	
2470 - 80	25% Anhyd wh-gry amorph 75% Sh as above	
2480 - 90	Do, sll drk gry Anhyd	
2490 - 2500	Same	
2500 - 10	50% Anhyd wh-gry suc-amorph; 50% Sh red as above	
2510 - 20	50% Anhy wh xln w/intergran $\emptyset$ , N. S. and drk gry amorph; 50% Sh as above	
2520 - 30	50% Anhyd, wh-dk gry gran-amorph; 50% Sh as above	
2530 - 40	As above	
2540 - 50	As above	
2550 - 60	75% Anhy wh-dk gry amorph; 25% Sh as above	CHASE GROUP TOP HUGOTON 2558' (+ 820)
2560 - 70	Same	
2570 - 80	75% Anhyd as above; 10% Sh blk silty; 15% Sh red as above	
2580 - 90	25% Sh maroon silty and brick red, soft; 75% Anhyd as above	
2590 - 2600	Anhyd, wh-lt gry & gray; 25% Sh as above	
2600 - 10	As above, some pink anhyd.	

\*DESCRIPTION CORRECTED FOR LAG: YES , NO

## FINAL WELL REPORT

## SAMPLE DESCRIPTION\*

WELL NAME: P.E.I. 1-10 Marion WELLSITE GEOLOGIST: R. C. Myers  
(OPERATOR) (WELL No.) (FARM NAME)

LOCATION: SF NW 10 21S 70W Lawrence Kansas  
(SPOT or FOOTAGE) (SEC.) (TWP) (RANG) (COUNTY) (STATE)

DEPTH	LITHOLOGY	REMARKS
2610 - 20	Same	
2620 - 30	Anhyd wh-lt gry amorph; Sh red blocky soft	TOP WINFIELD 2627 (+ 820)
2630 - 40	Same	
2640 - 50	Same	
2650 - 60	10% SS vy fn gr wh-(chalky clay filled) N.S., 50% Anhyd as above; 40% Sh as above	
2660 - 70	90% Sh maroon, brk red and gry blocky, soft, some vy silty. 10% Anhyd.	
2670 - 80	70% Dolomite, anhydritic, lt gry sucrosic-sli silty 20% Anhyd buff-lt gry-salmon; 10% Sh brk red	
2680 - 90	80% Anhydrite wh-lt gry amorph, tr Siltstn gry grn and salmon; 20% Sh as above	
2690 - 2700	80% Anhyd, wh-lt gry-pink amorph, tr SS v fn gr- silty, lt gry, soft	
2700 - 10	TRACE SS, fn-med gr sub rdd loose, no fluor; 80% Anhyd as above; 20% Sh as above	
2710 - 20	80% Anhyd wh-lt gry amorph w/dull <u>yel fluor</u> , <u>no cut</u> . Mud logger peaked at 45 units over background. 20% Sh.	L. FT. RILEY 2718' (+ 660)
2720 - 30	5% SS fn med-crs, sub-rdd-rdd, loose Qtz prly sorted, Siltstone lt gray soft, dull yel fluor	
2730 - 40	80% Anhyd wh-gry, sli sdy amorph; 20% Sh red-gry Dull yellow-tan fluor, no cut, no show.	CIRC 1 HR. for Smple. @ 2740
2740 - 50	50% Anhydrite wh-bf and gry mot den-amorph-gran; 50% Sh red & gry blocky, soft, tr sd grs loose rdd-sub rdd. Dull brn-yel fluor, no shows.	
2750 - 60	Same	
2760 - 70	50% Dolo tan den-fnly xln, anhydritic to anhyd, tan, den-gry mot. 50% Sh red blocky-silty & sdy soft	
2770 - 80	Same	

\* DESCRIPTION CORRECTED FOR LAG: YES , NO

# FINAL WELL REPORT

15.093.20034.0000

## SAMPLE DESCRIPTION\*

WELL NAME: P.F.I. 1-10 Marion WELLSITE GEOLOGIST: R. C. Myers  
(OPERATOR) (WELL No.) (FARM NAME)

LOCATION: SE NW 10 21S 38W Kearny Kansas  
(SPOT or FOOTAGE) (SEC.) (TWP) (RNG) (COUNTY) (STATE)

DEPTH	LITHOLOGY	REMARKS	
2780 - 90	50% Anhyd, lt gry-gry mot, tr wh-clear; 30% Sh brk red; 20% Siltstn lt gry grn	Twisted off main transmission SHAFT @ 2778'	
2790 - 2800	25% Anhyd wh-w/blk mottling-wh opaque granular, 75% Siltstn red argil and Sh gry grn		
2800 - 10	As above		
2810 - 20	80% Anhyd wh-chalky-gran. 20% Sh as above		
2820 - 30	50% Anhyd as above; 50% Sh as above		
2830 - 40	75% Sh maroon & brk red, some silty-vy fnly sdy, 25% Anhyd as above		
2840 - 50	60% Anhydrite, wh-chalky dolomitized, <u>hd</u> , tr SS dk grn vy hd, vy fn gr, 40% Sh as above, lt grn silty, soft		
2850 - 60	Same as above		
2860 - 70	As above, tr pyrite		
2870 - 80	50% Anhyd wh-milky den-granular; 50% Sh dk red as above		COUNCIL GROVE GROUP 2890 (+ 488)
2880 - 90	As above, some buff Siltstn		
2890 - 2900	75% Anhyd as above; 25% Sh as above		
2900 - 10	As above		
2910 - 20	60% Sh., brk red-lt grn varigated, blocky in pt silty 40% Anhyd wh milky-opaque-granular-Amorph, some with blk mottling, dull yel fluor throughout section of anhydrite-probable mineral fluores? No significant gas shows on the "Sniffer".		
2920 - 30	70% Siltstn, maroon, vy soft and Sh, brk red and gry grn, blocky. 30% Anhyd as above (good white fluorescence in Pipe Dope!)		
2930 - 40	As above		
2940 - 50	As above, some gypsum, clear, xln		
2950 - 60	50% Dolo lt gr-brk red, gran-suc-anhydritic; Sh, dk red blocky-silty		

\*DESCRIPTION CORRECTED FOR LAG: YES , NO





# FINAL WELL REPORT

## SAMPLE DESCRIPTION\*

15.093.20034.0000

WELL NAME: P.E.I. 1-10 Marion WELLSITE GEOLOGIST: R. C. Myers  
(OPERATOR) (WELL No.) (FARM NAME)

LOCATION: SE NW 10 21S 38W Kearny Kansas  
(SPOT or FOOTAGE) (SEC.) (TWP) (RNG) (COUNTY) (STATE)

DEPTH	LITHOLOGY	REMARKS
2960 - 70	70% Siltstn brn red-maroon and Sh brk red, soft blocky; 30% dolo wh gran-suc and anhydritic	
2970 - 80	As above, tr pyrite	
2980 - 90	90% Siltstn and Sh as above w/tr lt grn Sh; 10% Anhyd wh amorph	
2990 - 3000	70% Siltstn and Sh w/ tr lt grn as above; 30% Anhydrite wh amorph	
3000 - 10	As above	
3010 - 20	85% Ls, buff-wh chalky, and gry mot, sli ool, and xln. No Por. 15% Sh brk red blocky-silty. Dull yel-brn (mins)? fluor.	
3020 - 30	80% Ls tan-lt gry, dolomitic, den-chalky 20% Sh red and maroon	
3030 - 40	50% Sh dk red-maroon, blocky, soft 50% ls as above	
3040 - 50	As above	
3050 - 60	80% Ls, buff-lt gry, den-chalky dolomitic, some sucrosic 20% Sh as above	
3060 - 70	Same with grading to mostly gry	
3070 - 80	50% Ls, gry den-chalky & dolomitic; 50% Sh red and dk gry blocky, soft	
3080 - 90	As above	
3090 - 3100	50% Ls lt gry den-w/blk ool, sli dolo. 50% Sh red as above	TOP NEVA 3099' (+ 279)
3100 - 10	75% Sh brk red, maroon & grn, blocky, silty 25% Anhyd, lt gry sli dolo	
3110 - 20	As above	
3120 - 30	80% Ls, wh-lt gry some mot, den-chalky; 20% Sh as above	
3130 - 40	80% Ls, wh-lt gr den-granular & dolomitic, some dk gry and dk brn 20% Sh as above	
3140 - 50	50% Ls, as above; 50% Sh as above	

\*DESCRIPTION CORRECTED FOR LAG: YES , NO

# FINAL WELL REPORT

15.093.20034.0000

## SAMPLE DESCRIPTION\*

WELL NAME: P.E.I. 1-10 Marion WELLSITE GEOLOGIST: R. C. Myers  
(OPERATOR) (WELL No.) (FARM NAME)

LOCATION: SE NW 10 21S 38W Kearny Kansas  
(SPOT or FOOTAGE) (SEC.) (TWP) (RNG) (COUNTY) (STATE)

DEPTH	LITHOLOGY	REMARKS
3150 - 60	75% Ls, dk gry-blk-mot (wh inclusions) gran-dolo, 25% Sh as above, tr Siltstn wh calc, soft	
3160 - 70	75% Ls gry-dk gry fnly xln-dense some granular dolomtc; 25% Sh as above	
3170 - 80	As above, tr ch blk	
3180 - 90	As above, Ch blk	
3190 - 3200	As above	
3200 - 10	90% Ls, gry to brownish gry, granular-dense & mot, 10% Sh red as above, tr blk Ch	
3210 - 20	90% gry-dk grn mot, xln-granular some w/blk ool rud-elongated, 10% Sh as above	TOP PENNSYLVANIAN 3215 (+ 163)
3220 - 30	90% Ls wh, lt gry-dk gry, mot, fnly xln-gran, tr Ch gry, 10% Sh as above, tr gypsum, clear, xln	
3230 - 40	90% Ls gry-dk gry & blk, mot w/blk ool, argil, in pt. 10% Sh red	
3240 - 50	50% Ls buff-1t gry, den-chalky 40% Ls as above 10% Sh	
3250 - 60	As above	
3260 - 70	95% Ls lt tan-gry mot den-gran, some wh chalky 5% Sh red	
3270 - 80	As above	
3280 - 90	As above	
3290 - 3300	90% Ls buff den-chalky and gry mot w/blk ool 10% Sh brk red, maroon and gry, blocky	
3300 - 10	As above	
3310 - 20	20% Siltstn buff, no show or Fluor. 70% Ls, buff den-chalky 10% Sh, as above	
3320 - 30	As above, no show	
3330 - 40	80% Ls gry mot w/blk ool and buff chalky-den 20% Sh as above	
3340 - 50	As above. Trace Siltstn gry, soft	

\*DESCRIPTION CORRECTED FOR LAG: YES , NO

# FINAL WELL REPORT

15.093.20034.0000

## SAMPLE DESCRIPTION\*

WELL NAME: P.E.I.      1-1\*      1-1\*      1-1\*      WELLSITE GEOLOGIST: R. C. Myers  
(OPERATOR)      (WELL NO.)      (WELL ID)      (WELL NAME)

LOCATION: SE NW      30W      Kearny      Kansas  
(SPOT or FOOTAGE)      (TWP)      (COUNTY)      (STATE)

DEPTH	LITHOLOGY	REMARKS
3350 - 60	90% Ls lt gry-buff fny xln-chalky, some gray mot as above, 10% Sh as above	
3360 - 70	As above	
3370 - 80	90% Ls wh-lt gry fny xln-chalky, sli ool, some gry w/blk ool 10% Sh red and gry, as above	
3380 - 90	90% Ls gry-dk gry and blk ool to silty 10% Siltstn lt gry soft, Tr Sh as above	
3390 - 3400	As above, sli pyrte	
3400 - 10	Ls wh, ool and silty, den-sli xln and chalky; No por or snow; Tr gypsum, some Ls gry mot w/blk ool; Tr Sh, as above	FORMATION CHANGE
3410 - 20	50% Ls wh as above 50% Ls gry mot w/blk ool as above; Tr Sh	
3420 - 30	As above, Rare ool	
3430 - 40	90% Ls, gry, mot, silty and argil, hd 10% Sh red & gry blocky	
3440 - 50	90% Ls wh-lt gry silty-gran & chalky and Ls gry-dk gry, mot silty argil 10% Sh as above	
3450 - 60	As above	
3460 - 70	As above	
3470 - 80	90% Ls wh-buff dense-finely gran and chalky, and Ls dk gry, silty 10% Sh brk red, maroon and gray	
3480 - 90	90% Ls wh den-chalky and gry mot silty ool and sli foss 10% Sh as above	
3490 - 3500	90% Ls wh-den-chalky and gry-dk gry mot xln and foss Tr Siltstn gry, soft 10% Sh red, lt grn and dk gry	
3500 - 10	As above	SHAWNEE GROUP
3510 - 20	As above	3503 (-125)
3520 - 30	Ls wh milky den-chalky, some buff ool, tite, no por and Ls gry-dk gry mot xln ool and sli foss	Topeka Limestone

\*DESCRIPTION CORRECTED FOR LAG: YES , NO

# FINAL WELL REPORT

15.093.20034.0000

## SAMPLE DESCRIPTION\*

WELL NAME: P.E.I. 1-10 Marion WELLSITE GEOLOGIST: R. C. Myers  
(OPERATOR) (WELL No.) (FARM NAME)

LOCATION: SE NW 10 21S 38W Kearny Kansas  
(SPOT or FOOTAGE) (SEC.) (TWP) (RNG) (COUNTY) (STATE)

DEPTH	LITHOLOGY	REMARKS
3530 - 40	Ls gry-dk gry mot, xln ool and foss and wh-buff den	
3540 - 50	As above	
3550 - 60	As above, w/finely disseminated pyrite	All samples carry Wh Fluor, no cut or show
3560 - 70	As above	
3570 - 80	Predominantly Ls, wh-buff, den to chalky, some silty, occ orange inclusion and gry most, as above	
3580 - 90	As above	
3590 - 3600	As above Tr chert, clear-buff opaque	
3600 - 10	Ls buff den-gran & chalky w/increase in Ch as above and <u>occ. orange Chert frag</u> , some Ls Tr gry silty	
3610 - 20	Ls buff den-chalky and granular; Ch wh-milky	
3620 - 30	As above	
3630 - 40	As above	
3640 - 50	As above Ls buff chalky; Ch white	
3650 - 60	Ls lt tan-buff, den-ool, tite, and gry mot xln- Ch cl-wh	
3660 - 70	Ls wh-lt gry den-chalky, some gry silty; Tr Siltstn gry soft, 10% Sh red gry	
3670 - 80	Ls buff den-gran, and chalky. Some gry foss	
3680 - 90	As above	
3690 - 3700	Ls wh-buff chalky to tan, den-gran-sli foss 10% Sh red gry and blk and grn varigated blockey	
3700 - 10	Ls wh den-fnly xln chalky 20% Sh red, grn (sdy in pt) and Tr SS, fn-med gr with reddish stain. no show	
3710 - 20	Ls wh-buff, den-chalky as above Sh as above Tr SS as above	Cave?
3720 - 30	As above, some chips w/poorly devel ool 10% Sh red gry and dk gry	

\* DESCRIPTION CORRECTED FOR LAG: YES , NO

# FINAL WELL REPORT

15.093.20034.0000

## SAMPLE DESCRIPTION\*

WELL NAME: P.E.I. 1-10 Marion WELLSITE GEOLOGIST: R. C. Myers  
(OPERATOR) (WELL NO.) (FARM NAME)

LOCATION: SE NW 10 21S 38W Kearny Kansas  
(SPOT or FOOTAGE) (SEC.) (TWP) (RNG) (COUNTY) (STATE)

DEPTH	LITHOLOGY	REMARKS
3730 - 40	Ls tan, gry brn fnly xln, and wh den-chalky 10% Sh red gry, and drk gry-blk, non calcareous	
3740 - 50	Ls lt gry-tan mot, xln and buff, den-chalk 10% Sh as above, <u>some black</u>	
3750 - 60	Ls lt gry gran-silty and mot-xln, also Ls buff den-chalky 10% Sh as above	
3760 - 70	As above, some blk carb Sh	OREAD 3762 (-384)
3770 - 80	Ls wh-buff, den-chalky, some chips foss, and Ls lt gry silty- granular, 10% Sh as above	
3780 - 90	Ls lt gry-buff den-chalky some sli ool and mot gry. <u>Ch lt gry-wh one chip w/intergranular por w/show oil brite yel fluor and streaming cut</u>	HEEBNER SH 3789 (-411)
3790 - 3800	Ls as above, occ <u>chip w/some oil and fluor</u> as above, very poor por 10% Sh red gry to blk	TORONTO 3799 (-421)
3800 - 10	Ls, lt gry-tan fnly xln-granular, some Ls wh chalky, Tr Ch brn-gray. 10% Sh red, gry and black, Ch lt gry	PAY 3804-11
3810 - 20	Ls lt gry-tan, gran-mot xln w/poorly dev ools and Ls wh chalky, occ chip of tan Ls w/pin point vug <u>porosity and show live oil, yel fluor, good streaming cut in Xylene.</u> Ch lt gry	
3820 - 30	Ls lt tan-gry mot, xln-den w/pin point por, show oil, yel fluor & cut, porosity not well developed. No gas show on mud-logger	
3830 - 40	Ls tan-gry mot fnly xln-gran w/pin point por, good show oil, good fluor and cut	
3840 - 50	Ls lt gry-gry fnly xln-gran & suc. Fine vug por, w/s. o good yel fluor and streaming cut. Show is in scat chips, not throughout sample.	
3850 - 60	Ls as above Show oil, fluor and cut.	
3860 - 70	Ls as above, Had <u>show oil, fluor &amp; cut</u> in scat chips; Ch lt gry	
3870 - 80	Ls wh-buff den-chalky some <u>fnly xln w/solution cavities (vugs) w/s.o good fluor &amp; cut. Some staining in fossil molds.</u>	

\*DESCRIPTION CORRECTED FOR LAG: YES , NO

# FINAL WELL REPORT

## SAMPLE DESCRIPTION\*

15.093.20034.0000

WELL NAME: P.E.I. 1-10 Marion WELLSITE GEOLOGIST: R. C. Myers  
(OPERATOR) (WELL No.) (FARM NAME)

LOCATION: SE NW 10 21S 38W Kearny Kansas  
(SPOT or FOOTAGE) (SEC.) (TWP) (RNG) (COUNTY) (STATE)

DEPTH	LITHOLOGY	REMARKS
3880 - 90	As above w/sli stain in some chips as above, <u>Ch lt gry, very rare show of oil</u> Chert, more abundant than above.  DST #1 3756-3890- Toronto Ls (Misrun) DST #2 3748-8890- <u>Recovered 15' oil, 60' mud</u> <u>60' muddy wtr and 1811' SW</u>	Circ Samples 20 min for 2 hours
3890 - 3900	Ls wh-buff, granular-sucrosic, <u>some chips w/oil</u> <u>staining as above;</u> Tr Ch wh-lt gry	
3900 - 10	90% Ls, buff-lt tan-den-fnly xln, No Show. Sh, maroon, brk red and gry grn	
3910 - 20	80% Ls wh-buff, den-chalky and gry mot, w/obscure ool. Increase in Sh as above (20%) Tr Ch wh w/gry specks.	TOP LANSING 3913 (-535)
3920 - 30	50% Sh brick red, firm blocky; 50% Ls wh-buff den, some chalky. One chip w/sm vug por. Scattered show blk crude, yel fluor and cut	
3930 - 40	60% Ls as above; No show 40% Sh as above Tr Ch buff	
3940 - 50	As above	
3950 - 60	As above	
3960 - 70	20% Siltstn brk red, soft 20% Sh brk red blocky 60% Ls wh-buff den-fnly xln and chalky, no show. Tr Ch wh-lt gry; Tr Sh gry-blk	
3970 - 80	75% Ls buff-wh den-fnly xln 25% Sh as above Tr Ch wh	
3980 - 90	80% Ls as above <u>some chips wh poorly developed inter-granular</u> <u>porosity, w/weak oil stain, fluor, poor cut</u>	
3990 - 4000	90% Ls buff den-sli chalky, some ool w/porosity between oolites and occ oomoldic and vugular por. Show dk gry-blk crude, yel flour and cut in carbon tet. Less than 2% of chips have porosity and shows 10% Sh red gry blocky	
4000 - 10	80% Ls as above 10% Ls gry xln mot ool and foss in part silty, w/ <u>occ show blk oil in inter oolite spaces.</u> No oomolds noted. Tr Ch wh-tan 10% Shale	

\* DESCRIPTION CORRECTED FOR LAG: YES , NO

# FINAL WELL REPORT

## SAMPLE DESCRIPTION\*

15.093.20034.0000

WELL NAME: P.E.I. 1-10 Marion WELLSITE GEOLOGIST: R. C. Myers  
(OPERATOR) (WELL No.) (FARM NAME)

LOCATION: SE NW 10 27S 38W Kearny Kansas  
(SPOT or FOOTAGE) (SEC.) (TWP) (RNG) (COUNTY) (STATE)

DEPTH	LITHOLOGY	REMARKS
4010 - 20	90% Ls lt gry-lt tan den-xln and granular, scat wk shows in some chips	
4020 - 30	90% Ls lt gry-buff fnly xln-dense, some dk gry mot foss, xln and sli ool tite, no shows.	
4030 - 40	90% Ls lt gry as above w/sm vug porosity, <u>occ show blk oil, yel fluor &amp; cut.</u> Some buff w/oomoldic porosity, but no vis show or stain	
4040 - 50	Ls, wh-lt gry den to chalky to gry mot den-gran No show	
4050 - 60	Ls lt gry ool and den. <u>Occ chip w/show oil in pin point vugs</u> also Ls wh chalky-den. Ch wh-lt gry	
4060 - 70	As above w/occ <u>rare s.o.</u> in intergranular porosity	
4070 - 80	As above, 1 chip oolitic generally tite, but with <u>rare pin point vugs w/show black oil.</u>	
4080 - 90	Ls wh-buff and gry-den-chalky and xln, mot. Some ool w/oomoldic por <u>w/wk staining.</u> Occ chip <u>w/intergranular por w/scat show oil, fluor &amp; cut</u>	
4090 - 4100	Ls wh-tan-gray mot xln pyrte rarely ool <u>w/show oil in inter ool por spaces and intergranular pores</u>	
4100 - 10	Ls as above; <u>Sli more ool with shows</u> as above; Ch wh	
4110 - 20	As above, some oolmoldic w/shows as above; Ch wh	
4120 - 30	Ls wh-buff den-chalky and Ls brn gry mot xln, rare chips w/inter gran or pin point vug por w/show dark crude oil	(DSO?)
4130 - 40	Ls gry brn mot, xln, ool tite, no show. Ls wh-buff-den, chalky	
4141 - 50	Ls gry mot as above, ool-tite, N. S. Ls wh-buff den-chalky	
4150 - 60	Ls gry mot vy ool, xln and Ls buff ool w/good oomoldic por. One chip w/show oil in intergran porosity. Rest looks wet!	
Circ 30 Min	Ls gry mot and tan vy ool w/good oomlde por. No show. Looks wet!	
Circ 60 Min	As above, but w/poorer porosity through	DST #3 3995-4097 Rec 2200' Wtr
Circ 90 Min	As above pyrte	

\*DESCRIPTION CORRECTED FOR LAG: YES , NO



# FINAL WELL REPORT

## SAMPLE DESCRIPTION\*

15.093.20034.0000

WELL NAME: P.E.I. 1-10 Marion WELLSITE GEOLOGIST: R. C. Myers  
(OPERATOR) (WELL No.) (FARM NAME)

LOCATION: SE NW 10 21S 38W Kearny Kansas  
(SPOT or FOOTAGE) (SEC.) (TWP) (RNG) (COUNTY) (STATE)

DEPTH	LITHOLOGY	REMARKS
4160 - 70	Ls wh-buff den-chalky and Ls lt gry ool-some w/ good oolmde por and sli s. o. Looks wet!	TOP KANSAS CITY 4167 (- 789)
4170 - 80	40% Sh red-maroon (cavings?) gry and grn, silty 60% Bf-tan den-vy ool and porous in pt. Tr Ch wh milky	
4180 - 90	90% Ls gry-lt gry mot-den-ool and silty, mostly non-por but some good oolmde por. N. S.	
4190 - 4200	Ls buff-lt tan den-vy ool, tite to vy por w/good oolmde porosity, N. S. except rare stain in oomold	
4200 - 10	Ls as above w/sli more shows of hvy blk crude than above. Shows are generally in the oomolds, but occ in intergranular por spaces	
4210 - 20	Ls buff-lt tan den-chalky and ool. Also dk gry xln ool mot w/show hvy blk oil along fractures, some oomolds with blk crude in them. <u>All shows rare and vy scattered.</u>	
4220 - 30	Ls as above, shows looks flushed. Tr Ch wh-gry	
4230 - 40	Ls lt gry fnly xln-vy ool, but tite and Ls tanden-chalky, <u>rare scat</u> shows hvy crude as above; Tr Ch wh-gry	
4240 - 50	Ls tan-lt gry brn mot vy ool and buff, den. Some oolmde por w/scat S. D. oil	
4250 - 60	Ls buff-tan den-sli chalky. Some ool, no por No show, Ch lt gry	
4260 - 70	As above	
4270 - 80	As above, some oolmde por, no show	
4280 - 90	Ls buff-lt gry-gry mot ool-den, some oolmde por w/scat shows of dead oil - looks flushed.	
4290 - 4300	Ls buff den and ool w/some porosity w/show black oil in intergran por and in oomolds Ch lt gry	
4300 - 10	As above, mostly den-chalky Ch lt gry	
4310 - 20	Ls wh-buff den-chalky; Tr ool and oolmde por. Rare S.D.O.	TOP MARMATON 4335 (- 957)
4320 - 40	As above	
4340 - 50	As above; Ch lt gry	

\* DESCRIPTION CORRECTED FOR LAG: YES , NO

# FINAL WELL REPORT

## SAMPLE DESCRIPTION\*

15.093.20034.0000

WELL NAME: P.E.I. 1-10 Marion WELLSITE GEOLOGIST: R. C. Myers  
(OPERATOR) (WELL No.) (FARM NAME)

LOCATION: SE NW 10 21S 38W Kearny Kansas  
(SPOT or FOOTAGE) (SEC.) (TWP) (RNG) (COUNTY) (STATE)

DEPTH	LITHOLOGY	REMARKS
4350 - 60	Ls buff-lt gry and wh den-chalky. Some mot w/blk ool, ch gry	
4360 - 70	10% Dolo lt tan suc 90% Ls as above; Ch gry	
4370 - 80	As above; Ch gry	
4380 - 90	As above; Ch lt gry-gry	
4390 - 4400	Ls buff-wh den, chalky; and Ls gry mot ool and sli foss, some granular-sucrosic. N. S. Ch lt gry	
4400 - 10	As above	
4410 - 20	Ls buff-lt gry and wh den-chalky. Some tan vy ool and foss, no por Silstn gry, vy calc, No shows	
4420 - 30	As above	
4430 - 40	Ls buff-lt gry den-wh chalky; Siltstn dk gry calc	
4440 - 50	Ls gry-dk gry xln, foss mot and granular Ch dk gry-gry	
4450 - 60	Ls lt gry to wh, den-chalky, some dk gry-blk granular, argil Ch dk gry	
4460 - 70	Ls gry-tan mot xln ool and gran and Ls bf den-chalky	
4470 - 80	Ls lt gry w/blk ool and lt gr den-granular Sh blk calc and red blocky (cave?)	TOP CHEROKEE 4473 (- 1095)
4480 - 90	Sh dk gry-blk w/wh specks, calc, some maroon Ls, tan, den-lithographic	TRIP FOR BIT #7 @ 4490
4490 - 4500	Ls wh-tan den, chalky, Sh dk gry-blk, silty, calc	
4500 - 10	90% Ls buff den and wh chalky and Ls tan ool 10% Sh dk gry, calc	
4510 - 20	Ls dk gry mot xln, and Ls buff as above Ch dk gry oolitic and dk gry opaque.	
4520 - 30	50% Sh dk gry, blk, calc-silty. 25% Ls dk gry mot xln-gran argil 25% Ls buff ool-den and cherty (wh-gry) Tr barite	

\* DESCRIPTION CORRECTED FOR LAG: YES , NO

# FINAL WELL REPORT

15.093.20034.0000

## SAMPLE DESCRIPTION\*

WELL NAME: P.F.I. 1-10 Marion WELLSITE GEOLOGIST: B. C. Myers  
(OPERATOR) (WELL NO.) (FARM NAME)

LOCATION: SE NW 10 21S 38W Kearny Kansas  
(SPOT or FOOTAGE) (SEC.) (TWP) (RNG) (COUNTY) (STATE)

DEPTH	LITHOLOGY	REMARKS
4530 - 40	As above	
4540 - 50	As above	
4550 - 60	Ls tan-brn and gry mot xln-ooltc and tan, den Tr Sh blk carb	
4560 - 70	Ls lt gry gran-sucrosic in pt siliceous, 50% Sh dk gry and blk, carb-sli silty	
4570 - 80	Ls tan den-ool and granular also buff-wh chalky Ch tan Sh dk gry-blk platey calc, some red and maroon	
4580 - 90	As above	
4590 - 4600	Ls dk gry gran-argil, some foss, Ls tan den-ool, as above	
4600 - 10	As above; Tr Ls brn lithographic	
4610 - 20	Ls brn-gry den-litho; Ls buff gran, w/s.o., bright yel fluor and good streaming cut in minute intergranular spaces	
4620 - 30	Ls brn-gry mot, and brn den-litho-gran, w/show dk brn oil Ch brn speckled abundant. Sh blk-dk gry platey, calc and in pt silty	
4630 - 40	As above, vy sli staining in pin point vug por	
4640 - 50	30% Sh brk red, silty-blocky and gry blk platey 70% Ls lt tan and dk brn den and Ls buff gran- chalky, <u>scattered show oil</u> in P.P. vugs, <u>fair</u> <u>fluor, streaming cut</u> Tr Ch brn opaque and tan clear	
4650 - 60	20% Sh orange red, gry, blk and lt grn blocky to platey and silty 80% Ls bf den-chalky w/rare show oil as above. Tr Ch brn-gry	
4660 - 70	90% Ls bf-tan den-gran to chalky w/rare show oil in P.P. por vugs. 10% Sh as above Ch gry-brn	
4670 - 80	As above, <u>occ</u> s.o. as above, much red Sh, Ch brn-gry	
4680 - 90	As above, some gry mot xln Ls, rare shows as above, Ch brn-gray	
4690 - 4700	Ls gry-dk gry argil den-gran-chalky and Ls tan-brn den; Sh dk gry blk and orange red	TOP MORROW 4698' (-1320)

\*DESCRIPTION CORRECTED FOR LAG: YES , NO

# FINAL WELL REPORT

## SAMPLE DESCRIPTION\*

K.093.20034.0000

WELL NAME: P. E. I. 1-10 Marion WELLSITE GEOLOGIST: R. C. Myers  
(OPERATOR) (WELL No.) (FARM NAME)

LOCATION: SE NW 10 21S 38W Kearny Kansas  
(SPOT or FOOTAGE) (SEC.) (TWP) (RNG) (COUNTY) (STATE)

DEPTH	LITHOLOGY	REMARKS
4700 - 10	80% Ls dk gry-gry mot fnly xln-gran 10% Sh blk and red 10% Ls tan-brn den some chalky	
4710 - 20	As above, Ch tan	
4720 - 30	90% Ls gry-dk gry argil mot xln and buff chalky 10% siltstn wh-gry dirty w/sli s.o. oil, vy wk cut Ch tan. Tr Sh brite grn, orange and blk	
4730 - 40	Ls as above in pt gran w/s.d.o., No fluor Tr Siltstn wh-gry Sh blk and orange	
4740 - 50	Ls dk gry-blk fnly xln mot, Ls buff den-chalky and gran Sh blk carb, calc. Tr Ch tan	
4750 - 60	As above, pyrte. Tr Ch brn-tan Tr Sh lt gry, red and gry	
4760 - 70	Ls dk gry mot xln-foss in pt. Ls tan-brn den-chalky. Sh as above. Ch brn	
4770 - 80	As above	
4780 - 90	As above	
4790 - 4800.	Ls buff-tan gry den-sli mot and Ls dk gry mot as above Sh blk carb calc, Ch clear-wh milky	
4800 - 10	Sh dk gry-blk carb and gry silty grd to Siltstn lt gry-wh w/s.d.o. Ls buff-tan den-chalky, wh Tr SS vy fn gr gry firm, N. S.	
4810 - 20	Siltstn lt grn glauconitic; Ls brn crs xln sli foss & ool pyrte. Ls dk gry, mot-wh chalky in pt vy foss, sli s.d.o. in fracture partings	
4820 - 30	Ls brn den-dk gry gran-fnly xln. Some chip have s.o. in intergran por spaces and along frac ptgs. Sh dk gry and grn pyrte	
4830 - 40	Ls buff-lt tan den-wh chalky, Ls dk gry-blk mot xln Sh lt gry grn soft, sli silty. <u>Scat shows as above in Ls</u>	
4840 - 50	Ls tan-lt gry sdy-ool, sli glauc. Ch lt brn Siltstn lt gry, glauconitic. Some Ls tan-buff den-fnly xln-chalky w/rare s.o. in pinpoint vugs and fracs. Sh gry grn & blk soft, yel fluor and stream cut.	

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# FINAL WELL REPORT

15.093.20034.0000

## SAMPLE DESCRIPTION\*

WELL NAME: P.E.I. 1-10 Marion WELLSITE GEOLOGIST: R. C. Myers  
(OPERATOR) (WELL No.) (FARM NAME)

LOCATION: SE NW 10 21S 38W Kearny Kansas  
(SPOT or FOOTAGE) (SEC.) (TWP) (RNG) (COUNTY) (STATE)

DEPTH	LITHOLOGY	REMARKS
4850 - 60	Ls tan and dk gry, mot, crs cln, sdy, glauc, ool, crinoidal some intergran and frac por w/show oil, por generally poor! Siltstn, gry, soft, clauconitic. Sh, gry grn, blocky-silty	MISSISSIPPIAN SYSTEM TOP STE. GENEVIEVE 4851' (- 1473)
4860 - 70	Ls tan-buff xln-den and chalky. Tr Ls tan, sli glauc, sdy, and dk gry mot as above Tr Ch, tan and clear w/blk specks. Tr Sh gry, grn and red pyrte	
4870 - 80	Ls, tan-buff-wh, arenaceous, i.e., sd grs, fn-med-crs, prly sorted, tite in part clauc and Ls dk gry blk mot xln w/sli shows oil along fracture planes and in intergran pore spaces. ( <u>Shows are very scattered</u> )	
4880 - 90	Ls wh-lt tan chalky to vy sdy-silty Ls gry as above. No show to <u>rare scat show</u>	ST. LOUIS 4889 (- 1511)
4890 - 4900	Ls wh-lt tan vy sdy w/chalky wh cement, no staining 25% Sh gry grn-blk platey Tr Ls dk gry mot foss xln	
4900 - 10	Ls wh-buff den-vy sdy, tite, firm-hd, <u>rare chip</u> w/sli s.o. Ch tan speckled. Sh dk gry grn and red as above	
4910 - 20	Ls wh-buff-den-chalky and sdy, sli pyrte, Tr Siltstn grn glauconitic Sh dk gry-grn	
4920 - 30	Ls wh-buff-vy sdy-den and chalky No shows or fluor	
4930 - 40	Ls lt tan-buff fnly xln-den. Some buff chalky some sdy, but much less than above. No shows or fluor, Ch buff, opaque	
4940 - 50	As above, Ch buff opaque	
4950 - 60	Ls wh vy chalky-den and silty (granular) dolomitic some loose ostracods, no shows or fluor. Tr brn staining, no fluor or cut!	
4960 - 70	Ls wh-buff, den-chalky and dolomitic granular, some sli silty Tr brn staining on rare chips	
4970 - 80	Ls wh-lt tan gran-sdy and dolo, no shows	
4980 - 90	Ls lt tan-buff fnly xln, in pt chalky Tr granular, dolomitic	
4990 - 5000	As above, tr ool, no por. Tr Ch buff opaque	
5000 - 10	Ls tan-buff den-fnly xln and silty, wh chalky increase in Ch buff, translucent	

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# FINAL WELL REPORT

SAMPLE DESCRIPTION\*

15.093.20034.0000

WELL NAME: P.E.I. 1-10 Marion WELLSITE GEOLOGIST: R. C. Myers  
(OPERATOR) (WELL No.) (FARM NAME)

LOCATION: SE NW 10 21S 38W Kearny Kansas  
(SPOT or FOOTAGE) (SEC.) (TWP) (RNG) (COUNTY) (STATE)

DEPTH	LITHOLOGY	REMARKS
5010 - 20	Ls buff-den-xln w/some oolites, mostly sdy-silty and chalky. Ch buff, translucent	
5020 - 30	Tr Ls tan lithographic. 90% Ls as above, Ch buff transl. 10% Sh dk gry-blk, lt grn, tr red	
5030 - 40	As above	
5040 - 50	Ls wh-tan den-chalky and fnly xln w/faint oolite images, much Ch wh-lt gry	
5050 - 60	As above	
5060 - 70	As above Sh dk gry and green, some Ls tan-gry mot xln Ch wh milky to clear	
5070 - 80	Ls tan-wh den-chalky to fnly xln, some lt gray gran-dolomite; Ch wh milky to clear	
5080 - 90	Ls wh-buff den-chalky to fnly xln w/tr ool Ch clear	
5090 - 5100	As above, some tan lithographic. Sh lt grn-gry and black	
5100 - 10	Ls buff, vy ool, tite and Ls as above No shows	
5110 - 20	Ls buff den-xln 25% Sh dk gry grn platey	
5120 - 30	As above	SPERGEN 5128 (-1751)
5130 - 40	As above, some bf-gry mot, ool and wh ool-cty	
5140 - 50	Ls buff den-ool to gry mot ool xln, tr ostracods 25% Sh dk gry-grn	
5150 - 60	As above	
5160 - 70	Ls, tan-gry, foss, ool, mot and buff den-chalky Sh as above	
5170 - 80	As above, Ch lt gry	
5180 - 90	Ls buff fnly xln-den and Ls buff-dk gry mot xln foss in pt. Sh as above	
5190 - 5200	Ls as above Sh as above	

**RECEIVED**  
 STATE CORPORATION COMMISSION  
 JUN 14 1973  
 CONSERVATION DIVISION  
 Wichita, Kansas

\*DESCRIPTION CORRECTED FOR LAG: YES , NO

# FINAL WELL REPORT

15.093.20034.0000

## SAMPLE DESCRIPTION\*

WELL NAME: P.E.I. 1-10 Marion WELLSITE GEOLOGIST: R. C. Myers  
(OPERATOR) (WELL No.) (FARM NAME)

LOCATION: SE NW 10 21S 38W Kearny Kansas  
(SPOT or FOOTAGE) (SEC.) (TWP) (RNG) (COUNTY) (STATE)

DEPTH	LITHOLOGY	REMARKS
5200 - 10	Ls buff-dk gry mot crs xln, ool and Ls buff den	
5210 - 20	As above, in pt granular and siliceous; Ch lt gry transl.	Samples poor!
5220 - 30	Ls wh-gry gran mot-fnly xln, some crs xln mot, foss glauconitic; Ch gry-lt gry mot Much Sh cave, poor samples	OSAGE 5224 (- 1846)
5230 - 40	Ls gry-buff granular, some chalk to xln and oolite; Ch milky wh to oolite, much Sh cave - poor samples	
5240 - 50	As above	
5250 - 60	Ls wh-buff, oolite, to gry mot gran glauconitic in part, Ch wh milky - mot abund.	
5260 - 70	Ls dk brn vy ool tite, and gry mot crs xln Ch wh mot	
5270 - 80	Ls brn, ools, mot xln and Ls wh-bf chalky	
5280 - 90	As above	KINDERHOOK 5288 (-1910)
5290 - 5300	Ls dk brn-gry xln mot, and Ls buff-wh, gran-chalky. Ch gry and cl-translucent	
5300 - 10	As above, mostly wh-buff den gran. Much ch wh-lt gry milky and mottled. Ls brn ool and foss-gran some chip s/dead s. o. No fluor or cut	
5310 - 20	Ls tan-den-litho, gran. Ls lt gry-tan xln, mot ool and foss. Much Ch wh-lt gray transl-opaque. Sh dk gry and grn	
5320 - 30	As above. 30% Ch gry-lt gry mot w/blk flecks and rare oolite. Tr D.S.O. in gran Ls, no fluor or cut. Tr pyrite. Yel min fluor in lithographic Ls chips	
5330 - 40	As above	
5340 - 50	Ls tan den-litho, and buff gran, siliceous, much Ch wh-buff, mot show oil and fluor in solution cavities (very rare)	ORDOVICIAN SYSTEM VIOLA 5340 (-1846)
5350 - 60	As above, no show, much sh dk gry to grn silty 50% Ch as above	
5360 - 70	As above, 50% Ch, wh-lt gry, mot	
5370 - 80	Ls wh-buff-lt gry den-gran and chalky. Scat vy rare show oil and fluor along frac planes & sol cavities. Much Ch as above (30%)	

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 Wichita, Kansas

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# FINAL WELL REPORT

## SAMPLE DESCRIPTION #

15.093.20034.0000

WELL NAME: P.E.I. J-10 Marion WELLSITE GEOLOGIST: R. C. Myers  
(OPERATOR) (WELL No.) (FARM NAME)

LOCATION: SE NW 10 21S 38W Kearny Kansas  
(SPOT or FOOTAGE) (SEC.) (TWP) (RNG) (COUNTY) (STATE)

DEPTH	LITHOLOGY	REMARKS
5380 - 90	Ls as above, some ool, no shows Ch as above	
5390 - 5400	Ls buff-tan-brn, den-gran, some xln w/dk brn ool, pyrte, 40% Ch wh, milky Sh lt gry grn-dk gry blocky	<div style="border: 1px solid black; padding: 10px; transform: rotate(-15deg);"> <p><b>RECEIVED</b> STATE CORPORATION COMMISSION JUN 14 1973 CONSERVATION DIVISION Wichita, Kansas</p> </div> <p style="margin-top: 20px;">ARBUCKLE 5458 (-2080)</p>
5400 - 10	Ls buff-tan fnly xln-den some granular w/dead s.o. 20% Ch as above	
5410 - 20	As above	
5420 - 30	Ls wh chalky; Ls tan-buff-gry xln-mot pyrite. Ch wh-clear	
5430 - 40	Ls wh-buff fnly xln-chalky. Sh dk gry, grn, silty, pyrte Ch wh milky-clear	
5440 - 50	As above	
5450 - 60	Ls wh-buff to tan w/tan and brn oolitics, tite, n. s., some chalky Ch lt gry cl-opaque, some speckled	
5460 - 70	Ls tan-brn and wh-mot, ool, chalky, dean show oil Ch as above, occ loose ostracod	
5470 - 80	Ls tan-wh, ool, dead show on some chips, tite some tan fnly xln, along fracture planes. No fluores or cut	
5480 - 90	Ls tan-lt brn vy ool, tite. <u>Shows dead blk oil</u> (asphaltic) along stylolitic partings and inter- granular por spaces (more than above) calcite w/flecks of pyrite imbedded. Ch wh-lt gry less than above	
5490 - 5500	Ls buff dense. Dolo buff sucrosic-gran. Ch lt gry opaque w/sm blk specks, tr Ls ool as above	
5500 - 10	Dolo buff sucrosic, Ls tan dense, much Ch wh milky-opaque; Tr Ls bf ool-chalky w/show dead oil, ostracods in chalk matrix, vy soft. Sh dk gry silty-sdy, calc	
5510 - 20	Ls lt gry den-fnly xln, much Ch wh-lt gry milky- transl. Some w/blk specks, no shows	
5520 - 30	Dolo tan fnly xln-den, much Ch wh milky to lt gry transl. Ls tan vy ool, no por, Tr ostracods	

\* DESCRIPTION CORRECTED FOR LAG: YES , NO



# FINAL WELL REPORT

## SAMPLE DESCRIPTION\*

15.093.20034.0000

WELL NAME: P.E.I. 1-10 Marion WELLSITE GEOLOGIST: R. C. Myers  
(OPERATOR) (WELL No.) (FARM NAME)

LOCATION: SE NW 10 21S 38W Kearny Kansas  
(SPOT or FOOTAGE) (SEC.) (TWP) (RNG) (COUNTY) (STATE)

DEPTH	LITHOLOGY	REMARKS
5530 - 40	Dolo tan as above grading to granular, few loose ostracods: much Ch as above (30%)	
5540 - 50	Ls, tan den dolomitic to granular and sucrosic, no shows Ls tan den-vy oolitic, no por Ch lt gry-wh transl as above	
5550 - 60	Dolo lt tan den-fnly xln-sucrosic, calcite xln Ch wh-lt gray w/blk specks abund.	
5560 - 70	Dolo as above, Ls tan ool, no por. Ch abund as above	
5570 - 80	As above	
5580 - 90	As above	
TD 5591	(Circ samples) 1/2 hour: Dolo wh-lt gry den granular much ch wh-lt gray transl. w/blk specks 1 Hour: As above 1-1/2 Hours: Dolo lt tan-lt gry sucrosic, den and fnly xln, glauconitic in pt, Ch abund 2 Hours: Dolo lt tan den-gran-crs granular, sli glauc & pyrte, tr dolorhombs med-crs grain, no shows.	
	Note: Bit torqued up badly at 5591 and driller thought he had lost a cone. PP also increased about 300#. After pulling bit no cones missing, but bit worn. Pipe Strap 5591 = 5582.	

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\*DESCRIPTION CORRECTED FOR LAG: YES , NO

P.E.I. #1-10 MARION  
SE NW, Section 10, T21S, R38W  
Kearny County, Kansas

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DRILLING CHRONOLOGY

15.093.20034.0000

- 1/28/72 Progress: Surf to 120' (120') Set 40' 18" conductor pipe.  
Spud 5:00 P.M., drilled to 120 w/RT #1 12-1/4. Lost circ.  
Mixed mud.  
Mud: No record of characteristics  
M + L Added: 93 sx gel, 9 sx Lime, 38 sx hulls, 2 sx cedar fiber.  
Time: Rig up 16 hrs, Mix mud 2 hrs, drilling 4-1/4, spud 1-3/4 hrs.
- 1/29/72 Progress: 120' - 338' (218')  
Mixed Mud. Dry drilled to 338' with RT #1.  
Mud: No record.  
M + L Added: 79 hulls, 75 gel, 33 fiber, 15 dry seal.  
Time: Drilling 2-3/4 hrs, mix mud 15-1/4 hrs. trip 4 hrs,  
running casing 2 hrs.
- 1/30/72 Progress: None  
Ran 10 jts, 8-5/8" surf casing 320' set @ 322, 50 KB w/centralizers  
on 1-3 & 5 jt. Cmtd @ bottom w/200 sx reg w/3% cc. Cmtd from top  
w/100 sx reg w/2% cc. Cmtd @ 12:30 by Halliburton. Pressure up  
blind rams, pipe rams 700# for 15 min.  
Time: Rng and cementing surf casing, WOC 24 hrs.
- 1/31/72 Progress: 338' - 1288' (950')  
RIH w/bit #1 HTC-OSC-3A, 7-7/8", drilled to 1288' w/rotary speed  
140 RPM, WOB 25,000#, PP 700 psi.  
Mud: Drilling with water  
M + L Added: No additives  
Time: Drilling 15-3/4, WOC 1-1/2, Repairs 5-3/4, Trip 1 hr.  
Deviation: 1288' - 0°
- 2/1/72 Progress: 1288' - 2510' (1222')  
POH w/bit #1. Made 1288' in 15-1/4 hours. RIH w/bit #2, HTC-CIC,  
7-7/8" and drilled to 2210' w/rotary speed 130 RPM, WOB: 30,000#,  
PP 800 psi. Made 1288' in 72 hrs. POH. RIN w/bit #3 HTC-CICJ,  
7-7/8" and drilled to 2510' w/rotary speed 130, WOB 40,000#,  
PP 900#.  
Mud: Wt. 9.4, Vis 35  
M + L Added: 25 sx starch, 4 pres, 10 hulls, 7 cedar, 7 mud seal,  
10 gel, 1000 gals diesel oil  
Time: Drilling 18-1/2, trip 3-3/4, other 2.
- 2/2/72 Progress: 2510' - 2788' (278')  
Drilled ahead Bit #3 to 2602. POH. Made 392' in 10-1/2 hours with  
rotary speed 120 RPM, WOB 35,000#, PP 600#. RIH w/bit #4, HTC-OW4,  
7-7/8" and drilled to 2788'. Broke transmission shaft on connection.  
Circ, W.O.R.  
Mud: Wt. 9.6, Vis 38  
M + L Added: 11 starch, 1 Pres.  
Time: Drilling 10-3/4 hrs, repairs 6 hrs, trip 5 hrs, Circ for  
samples 2-1/4 hours, other 1 hr.
- 2/3/72 Progress: 2788' - 2815' (27')  
Repair transmission drive shaft. Began drilling again @ 9:15 P.M.  
and drilled ahead with bit #4 to 2815'. Rotary speed, WOB and PP  
not recorded.  
Mud: Vis 40 (no other records)  
M + L Added: 2 sx preservative, 12 starch  
Time: Drilling 1-3/4 hrs, Repairs 22-1/4 hrs.

Progress: 2815' - 3138' (323')  
Drilled ahead with bit #4 to 2921'. Rot speed 120; WOB 35,000 #; PP 900 psi, POH. Bit #4 made 312' in 14-1/2 hrs, RIH with bit #5 HTC-OW4, 7-7/8 and drilled to 3138 at Rot speed 120, WOB 35,000; PP 900 psi. Made 207' in 11-3/4 hours. POH for Bit #6.  
Mud: Wt. 40.2, Vis 36  
M + L Added: 11 sx starch, 1 preservative, 5 hulls, 2 D Seal, 36 seal  
Time: Drilling 17-3/4 hrs, Trip 5 hrs, Other 1-1/4 hrs.

2/5/72 Progress: 3138' - 3365' (227')  
Drilled from 3138 to 3365 with Bit #6, HTC J-44 7-7/8, w/40-45 RPM, WOB 35,000 #; PP 800#, at tour change drilled ahead.  
Mud: Wt. 9.6, Vis 35  
M + L Added: 5 sx starch; 15 sx gel, 5 sx hulls; 5 sx Fiber.  
Time: 19-1/4 Drilling; 2 hours trip; 1/4 hour repairs, 2-1/2 other.

2/6/72 Progress: 3365' - 3685' (320')  
Drilled ahead with Bit #6 to 3685'. Rot speed 45-50 RPM, WOB 35,000 #, PP 800 psi.  
Mud: Wt. 9.5; Vis 35, WL 9.6; FC 2; Ph 7  
M+L Added: 15 starch; 25 gel, 15 hulls, 18 fiber.  
Time: Drilling 23-1/4 hrs; other 3/4 hr.

2/7/72 Progress: 3685' - 3890' (205')  
Drilled ahead to 3890' with Bit #6. Rotary speed 45/50, WPB 35,; PP 900 psi. Circ & POH for DST #1, 3756-3890'. Pckrs failed (misrun) POH, moved packers up. At tour change, starting in hole for DST #2 3748-3890'.  
Mud: Wt. 9.7, Vis 34-44.  
M + L Added: 1000 gal diesel oil; 10 starch, 2 pres., 25 sc gel/  
Time: Drilling 11-1/4, Circ 4-1/4, Other 1/2, DST 6 hrs.

2/8/72 Progress: 3890 - 4005 (115')  
Pulled DST #2. Rec 15' hvy oil, 60' mud, 60' mud-wtr, 1811' SW, no gas. ROH with Bit 6 RR and drilled to 4005'. Rot speed 42, WOB 40,000; PP 800 psi. At tour change drilling.  
Mud: Wt. 40, Vis 39  
M + L Added: 10 starch; 2 pres, 5 hulls, 5 fiber  
Time: Drilling 11-1/4 hrs, Trip 3-1/4 hrs. DST 9-1/2 hrs.

2/9/72 Progress: 4005- 4160' (155')  
Drilled to 4160' with Bit #6, Rot speed 45-54, WOB 35/40,000, PP 850 psi. Circ and concition hole for DST #3, Ran DST (Straddle) 3995-4097 10-60-90-120 min. At tour change DST tool OB.  
Mud: Wt. 9.5; Vis 40  
M + L Added: None  
Time: Drilling 10-3/4, Circ, Trip & WO Tester 5 hrs; Running DST 8 hrs; Serv Rig 1/4 hr.

2/10/72 Progress: 4160' - 4305' (145')  
POH w/DST #3, rec 2200' wtr. RIH w/Bit #6 (RR) and drilled to 4305' with rotary speed 47, WOB 35/40,000; PP 900 psi. At tour change drilling ahead.  
Mud: Wt. 9.4; Vis 41; WL 4, FC 2/32, pH 7  
M + L Added: 8 starch; 2 pres; 13 hulls, 8 fiber  
Time: Drilling 13-1/2; DST 8; Trip 1-3/4, other 3/4.

2/11/72 Progress: 4305 - 4493' (188')  
Drilled to 4493 with Bit #6. Rotary speed 41, WOB 45/40,000; PP 950 psi. POH for Bit #7. Bit #6 made 1355' in 108 hours. At tour change OB with Bit #7. HTC-J44, 7-7/8".  
Mud: 9.4, Vis 37  
M + L Added: 6 starch, 1 pres, 13 hulls, 13 fiber, 8 salt gel  
Time: 19 hrs drilling, 4-1/2 hrs. trip, 1/2 hr other.

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- 2/12/72 Progress: 4493 - 4710' (217')  
Drilled ahead with Bit #7 to 4710 with rotary speed 45/50, WOB 40,000, PP 950 psi. At tour change drilling.  
Mud: Wt. 9.6, Vis 39, WL 614, FC 2/32, pH 7.  
M + L Added: 6 starch, 1 pres. 13 hulls, 10 fiber, 3 mud seal, 12 salt gel.  
Time: 23-1/2 hrs. drilling, 1/2 hr other.
- 2/13/72 Progress: 4710 - 4935' (225')  
Drilled ahead with Bit #7 to 4935 with rotary speed 45/50, WOB 42,000, PP 950 psi. At tour change drilling.  
Mud: Wt. 9.7; Vis 40.  
M + L Added: 10 salt gel; 6 starch; 1 pres; 5 hulls, 5 fiber.  
Time: 22-1/2 drilling; 1-1/4 repairs, 1/4 other.
- 2/14/72 Progress: 4935 - 5155' (220')  
Drilled ahead with Bit #7 to 5155 with rotary speed @ 45/50; WOB 40,000, PP 800 psi. At tour change drilling.  
Mud: Wt. 40, Vis 9.6, WL 16, FC 2, pH 7.  
M + L Added: 15 starch; 3 pres; 10 hulls, 5 fibers, 1000 gal diesel oil.  
Time: Drilling 23-1/5 hrs, other 1/2 hr.
- 2/15/72 Progress: 5155 - 5380 (225')  
Drilled ahead with Bit #7 to 5380' with rotary speed 46/50, WOB 40,000, PP 850 psi. At tour change drilling.  
Mud: Wt. 49.5; Vis 42; WL 9; FC 2/32; pH 6.8; LCM/bbl 6#.  
M + L Added: 10 starch; 1 pres; 10 hulls; 5 fiber.  
Time: Drilling 22-1/4 hrs, repairs 3/4 hr; other 1 hr.  
  
Have had considerable trouble with mud line washing out, necessitating welding.
- 2/16/72 Progress: 5380 - 5585' (205')  
Drilled ahead with Bit #7 to 5585 with rotary speed 45, WOB 40,000, PP 950 psi. At tour change drilling. Prep to run Welex.  
Mud: Wt. 9.7; Vis 65, LCM 8#.  
M + L Added: 2 Caustic; 6 Pres; 23 Starch; 20 Hulls, 20 Fiber, 3 Mud Seal; 1 Desco.  
Time: 23-3/4 Drilling, 1/4 other.
- 2/17/72 Progress: 5585 - 91 (6')  
Drilled to 5591' with Bit #7. Made total 1098' in 115-3/4 hours. Rotary speed 45, WOB 40,000; PP 900#. POH, strapping pipe to run Welex logs. Ran Gamma-Gard 5584-2200', Fracture Finder Microseismogram. 5584-2200, Acoustic Velocity-Caliper 5584-2200. Picked up tool for DST #4 5445 to TD. At tour change going in hole. Depth correction 5591 = 5582.  
Mud: Wt. 9.5; Vis 54.  
M + L Added: None.  
Time: 1/4 drilling; logging 12-1/2, WOO 4, DST 2, Trip 3-1/4.
- 2/18/72 Progress: TD 5591'  
Ran DST #4 5445 to 5582 (Arbuckle Dolomite)(TD) 10" - 60" - 90" - 120" test rec 610' drilling mud, 277' muddy water, Rw .210 @ 57° (Halliburton called test a misrun). Ran DST #5 3792-3812' Toronto, Red 344' oil (25° gty @ 66°) and 639' wtr, Rw .156 @ 65°. At tour change W.O. orders
- 2/19/72 Progress: None TD 5591'  
Started running 5-1/2", 15-1/2# casing at 3:00 P.M. Ran 117 jts of casing set at 3876-1/2' KB, start running cement @ 6:05 P.M.. Cemented with 75 sx 50-50 Pozmix 18% salt saturated. Plug down @ 6:45 P.M. by HOWCO w/500 gals mud flush. Centralizers on 1st - 3rd and 5th collar. Slips set @ 9:00 P.M.  
Time: 3 hrs WOO; 1/2 hr load tester, Trip 3 hr; 1-1/2 hrs lay down DP, 8 hours circ & w/o csg; 5 hrs. run casing and cement; 3 hrs jet tanks and clean up.

Last Entry this report. For additional data see Completion Report.

P.E.I. #1-10 MARIONSTATISTICAL WELL DATA

(Cont'd)

LOGGING RECORD

Ran Welex GUARD from under surface at 340' to 5584'. GAMMA Ray from 1870' to 5584'. Detail from 2200'.. Ran Welex Compensated Acoustic Velocity Log from 2200' to 5586' with Neutron log overlay from 2400' to 3255'. Ran Welex Fracture Finder Micro-seismogram Log from 2200' to 5574'.

Log Calculations: See Log tail Gamma-Guard Log. Calculations by W. R. Curtis, Great Bend, Kansas District

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P.E.I. #1-10 MARION

TESTING SUMMARYDST #1, 3756 - 3890'

134' Interval - OREAD - TORONTO LS, Misrun packers failed.

DST #2, 3748 - 3890'

142' interval OREAD-TORONTO LS, Halliburton. Open hole test w/2 6-3/4" packers at top. Packer depths 3743 and 3748. Set tool at 1:16 A.M., tool open @ 1:18 A.M. February 8, 1972. Ticket #492429, Liberal, Kansas District

Time Sequence: Preflow 11 min, 1st shut-in 61 min. 2nd flo 89 min, 2nd shut-in 129 min.

Surface Observation: Tool opened for 1st flow w/strong blow on blowhose. 2nd flow: tool reopened with strong blow for 45 min, then decreasing to a weak blow at end of 89 min.

Recovered: 1946' total fluid as follows:

15' Oil - 23° Gty @ 60° F  
 60' Mud oil specked  
 60' Muddy Water  
 1811' Water (Rw .175 @ 62° F)  
 Temp: 101°F

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Pressures:Top Recorder @ 3720'Bottom Recorder @ 3886'

Initial Hydrostatic	1957	2035	
1st Flow Period	Initial	200	319
	Final	606	216
	Closed in	919	993
2nd Flow Period	Initial	632	714
	Final	918	993
	Closed in	918	993

Final Hydrostatic                      1906                      1984

DST #3, 3995-4097'

102' interval LANSING LS Halliburton. STRADDLE OPEN HOLE TEST w/2 6" packers at top and 1 6" packer at bottom. Packers set at 3990', 3995' and 4097'. Set tool @ 10:03 P.M. opened tool at 10:05 P.M. February 10, 1972. Ticket #492430 Liberal, Kansas District.

Time Sequence and Surface Observation: Tool opened for 9 min 1st flo w/strong blow closed tool for 60 min 1st CIP. Tool re-opened for 90 min 2nd flo w/strong blow for 60 min, then decreasing to weak at end of 90 min. Closed tool for 126 min 2nd CIP.

Recovered: 2200' water (Rw 175 @ 58° F)  
 Temp: 108°.

TESTING SUMMARY (Continued)Pressures:

	<u>Top Recorder @ 3974'</u>	<u>Middle Recorder @ 4092'</u>	<u>Bottom Recorder @ 4157'</u>
Initial HP	2043#	2107#	2143 #
1st Flow	Initial 125	208	---
Period	Final 480	533	---
	C.I. 1018	1076	Hydrostatic
2nd Flow	Initial 493	563	---
Period	Final 990	1047	Release
	C.I. 1008	1072	2143
Final Hydrostatic	2025	2095	2141

DST #4, 5445 - 5582'

137' interval - ARBUCKLE LS, Halliburton, open hole test w/2 6" packers at top. Packer depths at 5440 & 5445'. Set tool at 12:50 A.M. Tool opened at 12:52 A.M. February 17, 1972. Ticket #49243-A, Liberal, Kansas District.

Time Sequence and Surface Observations: Opened tool for 10 min 1st flow w/wk to fair blow. Closed tool for 60 min ICIP. Re-opened tool for 90 min 2nd flow w/no blow for 35 min - bypassed tool and reopened w/wk to fair blow for 30 min, decreasing to weak at end of flow. Closed tool for 125 min 2nd CIP. Mis-Run Tool plugged.

Recovered: 610' Drilling Mud  
277' Muddy water (Rw .210 @ 57°F)  
Temp: 130° F

Pressures:

	<u>Top Recorder @ 5421'</u>	<u>Bottom Recorder @ 5579'</u>
Initial Hydrostatic	2864#	2947#
1st Flow	Initial 1122	1152
Period	Final 1365	1444
	Closed in 1368	1448
2nd Flow	Initial 1368	1448
Period	Final 1368	1448
	Closed in 1368	1448
Final Hydrostatic	2839	2925

DST #5 3792 - 3812'

20' Interval - TORONTO LS - Halliburton open hole straddle test w/2 6" packers at top and 1 6" packer at bottom sidewall anchor at 3816'. Packer depths 3787', 3792' and 3812'. Set tool @ 2:54 P.M. Tool opened @ 2:56 P.M., February 18, 1972. Ticket # 492434-B, Liberal, Kansas District.

Time Sequence and Surface Observations: Opened tool for 10 min first flow w/weak increasing to strong blow on blow hose. Closed tool for 61 min 1st C.I.P. Reopened tool for 90 min 2nd flow with weak blow increasing to strong blow and continuing throughout flow. Closed tool for 121 min 2nd C.I.P.

Recovered: 344 feet of free oil  
639 feet of water (Rw .156 @ 65° F)  
Temp: 102° F

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TESTING SUMMARY (Continued)

Pressures:

Top Recorder @ 3768'      Middle Recorder @ 3807'      Bottom Recorder @ 3829'

Initial HP	2017#	CS *	2122
1st Flow Period	Initial	68	96
	Final	188	207
	Closed in	927	940
2nd Flow Period	Initial	205	225
	Final	462	476
	Closed in	929	946
Final HP	2002	2007	2063

Hydrostatic Release 1980

\* Clock Stopped

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