



Geological Well History  
#1 Eversoll  
NW SE 7-35S-41W  
Baca County, Colorado

FORMATION TOPS

DAY CREEK	385
BLAINE	746
STONE CORRAL	1320
RED CAVE	1335
NEVA	2513
WABAUNSEE fm.	2649
WABAUNSEE por. zone	2760
TOPEKA	2848
"A"	2892
"B"	2928
"C"	3008
LANSGING	3064
MARMATON	3496
CHEROKEE	3904
ATOKA	4083
MORROW	4210
UPPER ss zone	4289 - 4362
KEYES	4622
CHESTER	4672
STE. GENEVIEVE	4722
TOTAL DEPTH	4732
ELEVATION	3656 Ground 3665 KB



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COMMENCED: 10-10-63

COMPLETED: 10-31-63

TOTAL DEPTH: 4725 Driller  
4732 Log

SURVEYS: Induction - Electric Log 1327'-4731'  
Sonic Log - Gamma Ray 1327' - 4727', 0-4727'  
Microlog - Caliper 1327' - 4731'

RESULTS: Plugged and abandoned

HOLE SIZE: 12-1/4" 0-1327  
7-7/8" 1327-4732

SURFACE CASING: 43 joints of 24# 8-5/8" casing set @  
1327 feet with 510 sacks of regular  
cement with 2% gel and 2% calcium chloride.

CONTRACTOR: Service Drilling Company





Oil Well History  
Oil  
SE 7-35S-41W  
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### LITHOLOGY

ALUVIUM			
0-150'	150'		Sand, vitreous, tan, fine to coarse, unconsolidated sub-rounded.
150-300'	150'		Gravel, chert pebbles and cobbles, unconsolidated.
RED BEDS			
300-385'	85'		Shale, orange to pink, with interbedded sandstone, vitreous to orange, sub-rounded, coarse to very coarse, unconsolidated.
DAY CREEK			
385-404'	19'		Dolomite, white to cream, dense, anhydritic with streaks of anhydrite, pink, massive.
RED BEDS			
404-746'	342'		Siltstone and shale, orange to pink with interbedded sandstone vitreous to orange, angular to sub-rounded, unconsolidated, and with occasional streaks of anhydrite and dolomite.
BLAINE			
746-950'	204'		Anhydrite, white, granular to fibrous, massive; shale and siltstone interbedded, orange to pink with occasional interbedded sandstone vitreous to pink unconsolidated, sub-angular.
GLORIETTA SAND			
943-1160'	217'		Sandstone, vitreous, fine to coarse, sub-rounded with chert pebbles and ferromage, with occasional frosted grains. Circulation was lost @ 1047'.



Re



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DMS #1

LITHOLOGY (continued)

RED BEDS 1160-1320'	160'	Siltstone and shale, orange to red interbedded with sandstone, fine to coarse, white, pink and vitreous loosely consolidated to unconsolidated, sub-angular to sub-rounded, occasionally anhydritic.
STONE CORRAL 1320-1335'	15'	Anhydrite, grey, massive, blocky with interbedded dolomite, granular, buff, anhydritic.
* RED CAVE 1335-1362'	27'	Siltstone, red grading into sandstone, pink, very fine, silty, anhydritic, loosely consolidated, no visible shows in cuttings.
RED BEDS 1362-2512'	1150'	Siltstone and shale, pink to red with abundant interbedded sandstone, vitreous to grey, very fine, silty to coarse unconsolidated to loosely consolidated, occasionally anhydritic; with numerous streaks of dolomite, pink to buff, fine crystalline to dense.
NEVA 2512-2538'	26'	Limestone, white to light grey, fine crystalline to dense, with streaks gypsum, no shows.
RED BEDS 2538-2549'	211'	Siltstone and shale, red with occasional grey-green shale inclusions. Interbedded limestone, grey to buff, dense to fine crystalline.





Well History

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LITHOLOGY (continued)WABAUNSEE  
2649-2760'

111'

Limestone, white to buff, fine crystalline, trace oolitic limestone at top; shale, red, grey, slightly micaceous with interbedded thin limestones as above.

WABAUNSEE POROSITY ZONE  
2760-2838'

78'

Limestones, buff to cream, dense to very fine crystalline, slightly oolitic with interbedded shale, orange to red, grey, calcareous.

TOPEKA  
2838-3064'

226'

Limestones, buff, fine crystalline to dense, slightly oolitic, interbedded with sandstones, orange, grey, very fine, consolidated, calcareous, interbedded with shale, red, orange, micaceous. No visible shows.

LANSING  
3064-3496'

432'

Limestones, buff, brown, grey, mottled, slightly oolitic, crystalline, occasionally chalky, trace of fusulinids, fossiliferous, interbedded with shale, maroon, orange, grey, calcareous, micaceous, some green shale and thin sandstones, grey, very fine, silty, micaceous.

MARMATON  
3496-3904'

408'

Limestones, white to buff, very fine crystalline to dense, blocky, with interbedded shale, maroon, micaceous, calcareous, occasional thin sandstones, very fine, calcareous grey sandstone @ 3750-80, fine to coarse, angular to rounded, unconsolidated to loosely consolidated, calcareous, vitreous, no visible shows, shale dark grey to black at base.





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LITHOLOGY (continued)

CHEROKEE  
3904-4083'

179'

Limestones, white, buff to brown, fine crystalline to dense, occasionally oolitic, with occasional floating clear quartz grains with an occasional thin sandstone, very fine, silty, calcareous to conglomeratic sandstone, interbedded with shale, grey to dark grey, micaceous.

ATOKA  
4083-4210'

127'

Limestone, white to buff oolitic, fossiliferous, dark grey to black limestone toward base, mottled, dense with interbedded dark grey to black shale.

MORROW  
4210-4622'

412'

Shale, dark grey to black, trace of coal at top, pyritic. Occasional streaks of thin limestones, grey to buff, arenaceous, glauconitic, fossiliferous, upper sandstone zone 4289-4362; thin sandstone beds or streaks, very fine to fine, grey, micaceous, calcareous grading to arenaceous limestone.

KEYES SAND  
4622-4672'

50'

Sandstone, vitreous to light grey, fine to coarse, with occasional pyrite, angular, calcareous to dolomitic, top 7 feet, tight with spotted fluorescence and cut upon crushing. Sandstone, unconsolidated, porous, angular, with occasional pyrite. No shows.





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LITHOLOGY (continued)

CHESTER  
4672-4722'

50'

Shale, greenish-grey, with occasional varicolored shale, greenish - grey and maroon, with interbedded mottled red shale, limestone, orange to pink, micro-oolitic.

STE. GENEVIEVE  
4722-4732'

Limestone, white to grey, micro-oolitic, dense, soft.

Re: Geological Well History



41W

\_\_\_\_\_ County, Colorado

#### MUD DATA

The basic mud was a low ph (10) caustic quebracho mud, 10 14 lbs of lost circulation material, cottonseed hulls and cedarbark per barrel of mud were used throughout drilling. Minor amounts of gel were used to help maintain desired viscosity and gel strength.

#### CORES

No cores were cut in this test.



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DRILL STEM TESTS

DST #1 (Red Cave) 1320 - 1366

ISI 30 min. Open 40 min. FSI 30 min.

(Flushed for 5 min. initially; good blow throughout.)

Very weak blow throughout test, diminishing toward end of test.

Recovered 720 feet of water.

FP 323 - 347

SIP 418 - 359

HP 584 - 573

Resistivity of Red Cave water recovered on test:

TOP SAMPLE	1.35 ohms @ 82° F
MIDDLE SAMPLE	1.42 ohms @ 77° F
BOTTOM SAMPLE	1.42 ohms @ 77° F



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WIRE LINE FORMATION TEST

Test #1 2843-45.5 (Topeka)  
Max. ISIP, less than explosion in 5 min. Total ISI time - 5 min.  
Tool open - 60 min. Sampling Pressure - less than 100  
Hydrostatic Pressure - 1400  
Max. FSIP - less than 100 in 10 min. - Total FSI time - 10 min.

RECOVERIES: 3500 cc water  
No gas, dist. or oil

PERCENT WATER CUT:  
Rrf .32 @ 100° F  
Rmf 1.05 @ 100° F  
Fm. wtr. 6  
Rw value used .05

Shot gas .8 cu. ft.  
Solution gas 0 cu. ft.  
Free gas 0 cu. ft.  
Total gas .8 cu. ft.

Production from this zone will be water.

12 gallon sample chamber used.

5-1/4" FIT Four Shot - type tool used.  
4 1-1/8" sc shot

Log analysis of zone tested: 21% water saturation  
16% porosity





ical Well History

soil

-35S-41W

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#### SAMPLES

A complete set of samples, from surface to total depth, 0 - 4725, was deposited in the American Stratigraphic Company, 1820 Broadway, Denver, Colorado.

#### PLUGGING DATA

The hole was filled with 10# mud. A cottonseed hull bridge was made @ 1366'; and a 25 sack plug was set through the Red Cave formation into the base of the surface casing (1316 - 1366). A ten sack plug was set in the top of the surface casing.