



# **GEOLOGICAL WELL REPORT**

**EDWARD MIKE DAVIS  
#13-31 BOLLISH**

**NW SW Section 31 - T9N - R52W  
LOGAN COUNTY, COLORADO**

# **SYNOPSIS OF WELL HISTORY**

**DRILLING CONTRACTOR - ASHBY DRILLING CO.**

**Toolpusher - Tim Jones**

**COMPLETION DATE      1-6-96**

**RESULTS      Plugged and abandoned**

**SURFACE CASING      8 5/8"x32 Casing set at 145 ft.  
Kelly Bushing Measurements**

**ELEVATION      4118 KB  
4108 Ground**

**TOTAL DEPTH      4919 Driller  
4916 Logger**

**DRILLING FLUID      Low ph, Polymer-Gel**

**DRILLING FLUID CO.      Quality Engineering Co.  
Engineer      Fred Rothauge**

**ELECTRIC LOGS      Schlumberger  
Engineer      Jim Martin**

**Dual Induction-SFL      140 ft. to 4916**

**Density Gamma Ray      3868ft. to 4885**



## **CHRONOLOGICAL WELL HISTORY**

- 1-2-96** Started moving in material @7:00AM-Spud well at 2:15PM-Drilled 145ft. of 12 1/4" Surface Hole in 2 hours and 30 minutes-Started running 3 jts. of 8 5/8"x32 Surface Casing at 4:45PM-Cemented with 85 sacks Neat Cement-3% calcium chloride 1/4 floccal per sack-good returns-Plug down at 6:00PM
- 1-3-96** Drill out plug at 2:00AM-Drilling at 7 7/8" Main Hole
- 1-4-96** Drilling at 3835ft. at 7:00AM-Mud-up from 6:30AM to 8:00AM-Repair clutch at 4414ft. from 4:30PM to 9:00PM
- 1-5-96** Drilled to 4680ft. by 2:30AM-Started circulating mixing mud prior to drilling the "D" Sand-Made Long trip for bit change-On bottom drilling at 12:00noon-Top of "D" Sand at 4704 at 2:15PM Drilled to 4710 and circulated samples up for 1 hour-Continued to drill ahead
- 1-6-96** Drilling at 4890 at 7:00AM-Total Depth of 4919 reached at 12:00noon-Short trip 12:00PM to 1:30PM-Circulated from 1:30PM to 3:00PM-Long trip for logs from 3:00PM to 5:00PM-Prepare to log at 5:30PM-Finish logging at 10:00PM-Prepare to plug and abandon

## FORMATION TOPS

NIOBRARA	3820
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FORT HAYS	4176
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CARLILE	4224
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GREENHORN	4367
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BROWN LIME	4597
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"D" SAND	4694
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"J" SAND	4808
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### TOTAL DEPTH

Driller	4919
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Logger	4916
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### ELEVATION

Ground	4108
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Kelly Bushing	4118
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## **SAMPLE DESCRIPTION**

### **"D" SAND**

4694-4716(22') Sandstone fine grain to silty, gray some light gray, very poor porosity, no fluorescence, no show interbedded with dark gray shale.

4716-4738(22') Sandstone fine grain light gray, quartzose, good porosity, no show, no fluorescence.

### **"J" SAND**

4808-4916(108') Sandstone and shale interbedded, sandstone silty to fine grain, gray, tight to very slight porosity in part, no show, no fluorescence, extremely poor quality reservoir sand



## **CONCLUSION**

**The "D" Sand channel expected in the upper part of the sand section was not found; nor was, quality reservoir sand found in the second and third benches of the "J" Sand. These three sands were the bases of this prospect. Stucturally the prospect was lower than expected.**

## SURVEYS

Depth	Degrees
1474	3/4°
2097	1°
2563	1 1/4°
2965	1 1/4°
3526	1 1/2°

## BIT RECORD

Number	Make	Size	Type	Interval	Hours
1	STC	12 1/4"	DT	Surface-145ft.	2 1/2
2	Reed	7 7/8"	D3205	145ft-4680ft	38
3	STC	7 7/8"	F-17	4680ft-4919ft	15 3/4

## BOTTOM HOLE ASSEMBLY

14-5 7/8" to 6" O.D. Collars

1-Cross Over Sub

## **DRILLING MUD DATA**

**Quality Engineering Co. was in charge of the drilling mud. Fred Rothauge was the engineer. The basic drilling mud was a low ph, polymer-gel mud. Weight and viscosity were controlled by water. The viscosiy, water loss, and weight were kept within the requirements for drilling the sands and logging.**



# **DRILLING CONTRACTOR DATA**

**ASHBY DRILLING Co. Rig #1**  
**Toolpusher Tim Jones**

**Drawworks-National T20    Power 1 set twin 671 GMC's**

**Pump-Ellis Williams 15 EW600 5 1/2"x15"**  
**Power 1 set twin 671 GMC's**

**Derrick L.C. Moore 95' Double**

**Substructure 42'x15'x10'**

**Light Plant 20Kw    Power 371 GMC**

**Swivel    Brewster 6SX**

**Blocks    Brewster 150 tons**

**Drilling Line 1 1/8"**

**Water Tank    300 bbls**

**Drill Collars 420ft(14 Collars)5 7/8"to6"ODx2 1/4"ID**

**Drill Pipe 4 1/2" X-Hole**

## **PLUGGING DATA**

**The well was plugged and abandoned as recommended  
by Ed Brinkley of the Colorado Oil&Gas Commision**

<b>Plug Number</b>	<b>Interval</b>	<b>Number of Sacks</b>
<b>1</b>	<b>4820-4670-Top of "J" Sand</b>	<b>40</b>
<b>2</b>	<b>40-Surface</b>	<b>10</b>