



0188891

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OPERATOR: E. DOYLE HUCKABAY, TRUSTEE  
 CONTRACTOR: Toltek Drilling Company  
 FIELD: Wildcat  
 LOCATION: C NW NW Section 15 - 8S - 59W  
 COUNTY: Arapahoe County, Colorado  
 ELEVATION: 5386 Ground, 5396 Kelly Bushing  
 SPUDED: March 24, 1973  
 CASING: Surface - 8 5/8 inch set at 84 feet K.B. w/approximately 50 sacks of regular cement, 2.4% CaCl, good returns, plug down at 10:15 A.M., drilling at 2:30 P.M.  
 LOGS: Schlumberger - IES and FDC - GR w/Caliper  
 CORES: None  
 DRILL STEM TESTS: None  
 COMPLETED: Drilling & logging, March 30, 1973 D&A; State plugging instructions were; fill hole w/mud, spot cement plug from 450 to 300 feet, fill w/mud, spot 15 sacks of cement in & out of the bottom of the surface casing, fill w/mud and spot 10 sacks of cement in the top of the surface casing.  
 MUD PROPERTIES: For logging; weight 10, viscosity 92, rest N.A.

A 7 7/8 inch hole was drilled w/Gel - chemical mud.

A drilling time recorder was on the rig and one foot drilling time kept.

Samples: 30 foot from under surface to 5300 feet; 10 foot from 5300 w/some 5 foot in critical zones to total depth 6290 feet.

Samples were examined from 5100 feet to total depth.

Samples were circulated at 6237 and 6290 feet, total depth.

Strapped Drill Pipe, board 5691, strap 5682, no correction to re-strap.  
 Strapped Drill Pipe, board 6156, strap 6156.

FORMATION TOPS	LOG (IES)	SAMPLE or D.T.
Niobrara	5280	? 5206
Ft. Hays	5650	5633
Calile	5690	5636
Greenhorn	5785	5779
Bentonite Marker	5997	5999
"D" Sand	6090 (-694)	6093
"J" Sand	6138 (-742)	6139
Total Depth	6290	6290

Sample descriptions are corrected to Log (IES) depths. Sample quality, part fair, mostly very poor.

"D" SAND 6090

- 6090 - 6101 Interbedded sand & shale: sand, gray-white, very fine-fine grain, SA-SR, micaceous, finely carbonaceous, trace of glauconite & pyrite, clay filled w/little medium quartzitic, mostly tight, traces w/questionable slight porosity, no show; shale, gray-black, carbonaceous, little is silty-very fine sandy.
- 6101 - 6115 Interbedded sand & shale: sand, gray-white, silty-very fine grain, SA-SR, micaceous, finely carbonaceous, trace glauconitic & pyritic, clay filled to part shaly, tight, no show, traces of tan sideritic silt to fine sand; shale, gray-black, carbonaceous, silty, traces of gray bentonite.
- 6115 - 6131 Shale w/few thin silty streaks; shale, gray & gray-black, carbonaceous, traces silty, traces of gray & white bentonite.
- 6131 - 6138 Shale, black, carbonaceous, traces light gray silty, slightly pyritic & glauconitic, traces of gray & yellow bentonite.

"J" SAND 6138

- 6138 - 6157 Thin bedded sand & shale w/few thin streaks of gray bentonite: sand, dirty gray-brown to gray-white, fine-medium grain, SA-SR, dark minerals, trace pyritic, trace of fossil fragments, slightly micaceous, trace glauconitic, hard quartzitic, some clay filling, little silty-shaly, tight, no show; shale, gray & gray-black, carbonaceous, part silty & fine to medium sandy.
- 6157 - 6170 Sand w/few thin shale laminations & few thin gray-black shale beds; sand, gray-white, fine grain, SA-SR, S&P, trace glauconitic, most quartzitic, little clay filled-shaly, mostly tight, questionable traces of low porosity, no shows.
- 6170 - 6177 Sand, gray-white, fine-medium grain, SA-SR, slightly S&P, traces of scattered clay cement, mostly fair to good porosity & permeability, no show.
- 6177 - 6184 Sand, (only a trace in the samples) gray-white, fine-medium grain, SA-SR, slightly S&P, slight to heavy clay cement, part low to fair p&p, no show.
- 6184 - 6193 Shale, light gray, soft, bentonitic, part silty-very fine sandy.
- 6193 - 6249 Sand, thin shale laminations & beds, gray, very fine-fine grain, part silty, SA-SR, S&P, glauconitic, traces of fine pyrite, some mottled carbonaceous-shaly, clay filled, tight, no show.
- 6249 - 6270 Sand, as above, mostly more silty-very fine grain, fairly shaly, tight, no show, traces of gray-white bentonite.
- 6270 - 6290 Interbedded shaly sand, thin gray carbonaceous shale breaks, few thin streaks of gray bentonite; sand, gray, silty-very fine grain, SA,

micaceous, S&P, traces glauconitic & pyritic, shaly & clay filled, tight, no show.

SCHLUMBERGER LOG ANALYSIS

Depth	Rw	%Por.	%water	Remarks
6158 - 6160	0.13	11	100	shaly
6160 - 6162	"	12	100	"
6162 - 6168	"	10	100	"
6168 - 6170	"	12	100	
6170 - 6172	"	15	65	
6172 - 6176	"	17	60	
6176 - 6180	"	10	85	
6180 - 6184	"	12	100	

DISCUSSION AND RECOMMENDATIONS

Fair porosity & permeability was logged in the "J" sand zone 6170 - 6176, no shows were logged in the relatively small amount of this zone in the samples, log analysis does not indicate any reasonable possibilities. It was recommended the test be plugged and abandoned.

Permission was obtained from the interested parties and plugging instructions obtained from the State Oil & Gas Commission.

DEVIATION RECORD

Depth	Degrees	Depth	Degrees
3253	2 1/4	5680	1 1/2
4310	1 3/4	6147	1

BIT RECORD

No.	Size	Make	Type	Jet Sizes	Depth Out	Footage	Hours
1	7 7/8	Reed	YT3AT	1/2-9/16-9/16	3253	3153	25 1/2
2	"	Smith	DTJ	1/2-9/16-9/16	4310	1157	11 3/4
3	"	Smith	DT	reg.	5680	1370	25
4	"	Smith	DT	"	6147	457	17 1/2
5	"	Reed	YS4G	"	6237	90	14 1/2
6	"	Reed	YS4G	"	6290	53	8

Sincerely yours,

