



# DATA SHEET AND DISCUSSION

LOCATION: SE SE SW (330 feet North of the South line and 330 feet West of the East line of the Southwest Quarter) Section 28, Township 12 North, Range 53 West, Logan County, Colorado.

COMMENCED: October 5, 1951.

COMPLETED: October 26, 1951.

CONTRACTOR: Sterling Drilling Company, Sterling, Kansas.

CASING: 280 feet of 10 3/4" set at 292 feet with 160 sacks of cement.

ELEVATION: 4619 Rotary Drive bushing which is approximately 10 feet above the ground.

MEASUREMENTS: They are all taken from the top of the rotary drive bushing.

HOLE TESTS: 500'-0°, 1000'-1/4°, 1500'-1/2°, 2000'-1/2°, 2500'-1 3/4°, 3000'-1 3/4°, 3500'-1 3/4°, 4000'-1 1/2°, 4500'-3/4°, 5000'-0°, 5500'-0°, 5750'-3/4°.

<u>TOPS:</u>	<u>Formation</u>	<u>Sample</u>	<u>Schlumberger</u>	<u>Datum</u>
	Niobrara	4475	4487	+ 132
	Timpas	4770	4773	- 154
	Codel	4845	4845	- 226
	Carlile	4859	4857	- 238
	Greenhorn	5040	5034	- 415
	Greenhorn Lime-			
	stone	5080	5077	- 458
	Graneros	5088	5095	
	D Sand	5317	5315	- 696
	Base of D Sand	5353	5351	- 732
	J Sand	5427	5426	- 807
	Base of J Sand	5481	5501	- 882
	Dakota (Cloverley)			
		5675	5670	-1051
	Morrison	5830	5828	-1209
	Total Depth	5834	5831	-1212

DISCUSSION: The top 20 feet of the D sand in this well was shaled out. The one foot of the top sand break



DISCUSSION:

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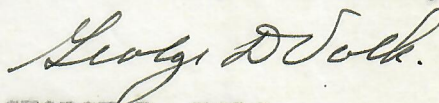
in the well was saturated but this was not enough to make a well. The attempted drill stem test failed to recover anything from the saturation. The second break carried water and eliminated any chance of production from this zone.

The J Sands were poorly developed. The two sections not shaled out were quartzitic and too hard and tight to expect production of any kind.

The top sand of the Dakota series had a show of gas. (5675-5683) A drill stem test proved the sand carried water as well as gas and production would be impossible. The gas was odorless and would burn but not with the vigor expected of normal gas. The rest of the sands in this series failed to show any trace of oil or gas.

The well was plugged October 26, 1951 after running a Schlumberger log. The hole was filled with 10 pound drilling mud. A 10 sack cement plug was set at the base of the surface pipe. (292-272). A 10 sack cement plug was placed in the top 20 feet of the surface pipe.

Respectfully submitted,



GEORGE D. VOLK  
Petroleum Geologist

hv  
October 29, 1951



SAMPLE LOG

Plains-Beltzer #1

28-12N-53W  
Logan County,  
Colorado

From-To:

4300-10	Shale dark gray & light gray bentonite; trace chert light brown and pyrite.
4310-20	Ditto; ditto; ditto; and light brown dense.
4320-30	Ditto; ditto; trace limestone brown dense & light brown, coarsely crystalline; trace inoceramus prisms and bentonite white.
4330-40	Ditto; ditto; limestone white, coarsely crystalline, bentonite white; trace inoceramus prisms.
4340-50	Ditto; ditto; ditto and brown dense; ditto; ditto.
4350-60	No Sample.
4360-70	Ditto; ditto; bentonite white; trace inoceramus prisms and pyrite.
4370-80	Ditto; ditto; ditto; slight trace limestone white to light brown, coarsely crystalline.
4380-90	Same.
4390-4400	Same.
4400-10	Shale gray to dark gray; trace limestone white, coarsely crystalline and pyrite.
4410-20	Ditto; trace siltstone gray and pyrite.
4420-30	Ditto; trace pyrite and inoceramus prisms.
4430-40	Ditto & light gray bentonite; trace pyrite and inoceramus prisms.
4440-50	Ditto; ditto; trace ditto; trace bentonite white.
4450-60	Ditto.
4460-70	Ditto.
4475	<u>Niobrara</u>
4470-80	Ditto; trace bentonite white and inoceramus prisms.
4480-90	Ditto; slight trace bentonite white & pyrite.
4490-4500	Ditto; trace dark gray mottled light brown calcareous; trace bentonite light brown.
4500-10	Shale gray to dark gray mottled light brown calcareous.
4510-20	Same.
4520-30	Shale light gray mottled light brown, very calcareous.
4530-40	Same.
4540-50	Shale gray to dark gray mottled light brown calcareous; trace inoceramus prisms.
4550-60	Ditto; trace pyrite.
4560-70	Ditto; trace bentonite white.
4570-80	Ditto; trace inoceramus prisms.
4580-90	Ditto; trace limestone yellow sandy; trace pyrite.
4590-4600	Ditto.
4600-10	Shale gray mottled light brown calcareous.
4610-20	Ditto.
4620-30	Ditto.



Sample Log  
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4630-40 Shale gray mottled light brown, very calcareous.  
4640-50 Ditto; ditto.  
4650-60 Ditto; and dark gray.  
4660-70 Ditto; ditto; trace limestone white, coarsely crystalline.  
4670-80 Shale dark gray mottled gray & light brown calcareous; trace limestone white, coarsely crystalline.  
4680-90 Ditto; trace inoceramus prisms.  
4690-4700 Ditto; trace pyrite.  
4700-10 Ditto; ditto.  
4710-20 Ditto; ditto.  
4720-30 Ditto.  
4730-40 Ditto; slight trace bentonite light brown & pyrite.  
4740-50 Ditto; slight trace pyrite.  
4750-60 Ditto; slight trace pyrite & limestone white to light brown, coarsely crystalline.  
4760-70 Ditto; trace pyrite & ditto.  
4770-80 Timpas  
4770-80 Ditto; ditto.  
4780-90 Ditto; Some limestone gray shaley dense.  
4790-4800 Ditto; trace limestone white dense.  
4800-10 Limestone white dense.  
4810-20 Ditto; trace inoceramus prisms.  
4820-30 Ditto.  
4830-40 Ditto.  
4845 Codel  
4840-50 Ditto; and shale dark gray; trace pyrite.  
4859 Carlile  
4850-60 Sand gray, fine, tight and shale dark gray.  
4860-70 Same.  
4870-80 Ditto; part calcareous grading to siltstone; shale dark gray.  
4880-90 Same.  
4890-4900 Some ditto; ditto; trace inoceramus prisms.  
4900-10 Shale gray to dark gray; some sand gray, very fine, tight grading to siltstone.  
4910-20 Ditto; ditto; trace pyrite.  
4920-30 Ditto; little ditto; trace limestone white to brown, coarsely crystalline.  
4930-40 Ditto; ditto; trace pyrite.  
4940-50 Same.  
4950-60 Ditto; trace ditto; ditto; and inoceramus prisms.  
4960-70 Ditto; little ditto; ditto; ditto.  
4970-80 Same.  
4980-90 Ditto; trace ditto; ditto; trace bentonite light brown.  
4990-5000 Ditto; some ditto.  
5000-10 Ditto; ditto; ditto.  
5010-20 Same.



Sample Log  
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5020-30	Shale gray to dark gray; some sand gray very fine.
5040	<u>Greenhorn Sd.</u>
5030-40	Ditto; trace ditto; trace pyrite.
5040-50	Ditto; trace ditto; ditto; trace limestone white to gray, coarsely crystalline.
5050-60	Ditto; ditto glauconitic; slight trace limestone white to gray, coarsely crystalline.
5060-70	Some ditto; ditto; trace bentonite light brown.
5080	<u>Greenhorn Ls.</u>
5070-80	Some ditto; ditto; ditto.
5088	<u>Graneros</u>
5080-90	Some sand gray very fine, glauconitic; trace bentonite light brown; trace limestone white, gray and light brown, coarsely crystalline.
5090-5100	Ditto; trace limestone white, gray and light brown, coarsely crystalline.
5100-10	Shale gray to dark gray; trace sand gray very fine; trace limestone white, gray and light brown, coarsely crystalline.
5110-20	Ditto; slight trace ditto; ditto.
5120-30	Ditto; little siltstone dark gray; slight trace ditto.
5130-40	Ditto; some ditto.
5140-50	Ditto; trace limestone white, light brown, coarsely crystalline; trace inoceramus prisms & pyrite.
5150-60	Ditto; ditto, part sandy; ditto.
5160-70	Limestone white to light brown, coarsely crystalline and finely crystalline sandy.
5170-80	Shale dark gray to black; trace limestone as above; trace pyrite & inoceramus prisms.
5180-90	Ditto; trace ditto; ditto; ditto.
5190-5200	Ditto; trace siltstone gray to light brown.
5200-10	Shale dark gray; trace pyrite.
5210-20	Shale gray to dark gray; ditto.
5220-30	Ditto; ditto; trace bentonite white & light brown.
5230-40	Ditto; ditto; ditto; trace limestone white to light brown, coarsely crystalline.
5240-50	Ditto; slight trace bentonite white & light brown; slight trace limestone white to light brown, coarsely crystalline.
5250-60	Ditto.
5260-70	Ditto; slight trace siltstone gray; trace chert light brown.
5270-75	Ditto; trace ditto; trace inoceramus prisms; trace chert light brown.
5275-80	Ditto; trace pyrite & bentonite white & light brown.
5280-85	Ditto; trace siltstone dark gray; trace pyrite & bentonite white & light brown.
5285-90	Ditto; little ditto; ditto; ditto.
5290-95	Ditto; slight trace ditto; ditto; ditto.



Sample Log  
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5295-5300 Shale gray to dark gray; trace siltstone dark gray;  
trace pyrite; and bentonite white and light brown.  
5302  
Circ. 30" Same.  
Circ. 60" Shale gray to dark gray.  
5302-5305 Same.  
5305-10 Ditto; trace pyrite and inoceramus prisms.  
5310-15 Ditto; ditto; ditto.  
5316 D Sand  
5315-20 Ditto; ditto.  
5321  
Circ. 30" Sand fine to medium gray, saturated, fair fluorescence.  
Circ. 60" Ditto; siltstone gray, fine, no show.  
5321-24 Same.  
5324  
Circ. 30" Little ditto; ditto.  
5324-42 See Core Record.  
5342-50 Shale dark gray and sand fine to medium white,  
glauconitic, partly silty, no show.  
5350-55 Ditto; ditto.  
5355-60 Ditto; ditto; and brown quartzitic.  
5360-65 Same; trace chert brown.  
5365-70 Shale gray to dark gray; some black carbonaceous;  
little chert brown.  
5370-75 Ditto; ditto laminated; ditto.  
5375-80 Ditto; ditto; trace chert light brown and siltstone  
gray.  
5380-85 Shale dark gray and black laminated carbonaceous;  
trace chert light brown, part sandy; trace pyrite.  
5385-90 Ditto; ditto; trace sand gray and light brown fine  
quartzite; trace chert light brown; trace pyrite.  
5390-95 Shale gray; ditto; ditto; ditto; trace bentonite white.  
5395-5400 Shale gray to dark gray; ditto.  
5400-05 Same.  
5405-10 Ditto; sand dark gray, very fine quartzitic.  
5410-15 Ditto; some ditto; trace siltstone dark gray.  
5415-20 Ditto; slight trace sand white, fine, soft, porous,  
no show; trace siltstone dark gray.  
5420-25 Same.  
5427 J Sand  
5425-30 Ditto; ditto; ditto; trace pyrite.  
5430-31 Ditto; sand, white fine to medium, part porous, mostly  
quartzitic, slight trace gas.  
5433  
Circ. 30" Sand, medium to coarse, white, porous, part silty.  
Circ. 60" Ditto.  
5433-62 See Core Description.  
5462-65 Shale dark gray; some sand, white, medium quartzitic,  
no show.  
5465-70 Ditto; little ditto.



Sample Log  
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5471  
Circ. 30" Shale dark gray; trace some sand, white, medium, quartzitic, no show.  
Circ. 60" Ditto; trace ditto.  
5471-75 Shale gray to dark gray; little sand gray, fine to medium quartzitic, no show.  
Circ. 30" Same.  
Circ. 60" Same.  
5475-80 Same.  
5480-85 Same.  
5485  
Circ. 30" Ditto; little ditto.  
Circ. 60" Ditto; trace ditto; part silty.  
5485-90 Ditto; little sand, gray, fine, quartzitic.  
5490-95 Ditto; trace ditto.  
5495-5500 Shale gray to black fissil.  
5500-05 Shale gray to dark gray; trace black fissil; trace siltstone dark gray; trace bentonite white to light brown; trace pyrite.  
5505-10 Ditto; ditto; ditto.  
5510-15 Ditto; ditto; trace bentonite white to light brown; trace pyrite.  
5515-20 Shale gray to black fissil; sand, gray, fine, quartzitic; trace siltstone gray; trace pyrite.  
5520-25 Shale gray to dark gray; little siltstone gray; trace sand, gray, fine, quartzitic.  
5525-30 Ditto; fissil; ditto and light brown; ditto; trace pyrite.  
5530-35 Ditto; trace ditto; trace pyrite.  
5535-40 Ditto; ditto; some trace sand, gray, fine, quartzitic.  
5540-45 Same.  
5545-50 Ditto; trace sand, gray, fine, quartzitic; trace bentonite light brown.  
5550-55 Ditto; some ditto; trace pyrite.  
5555-60 Ditto; trace ditto; trace ditto.  
5560-65 Ditto; trace ditto; trace bentonite light brown and pyrite.  
5565-70 Ditto; slight trace ditto; ditto; ditto.  
5570-75 Ditto; slight trace ditto; ditto.  
5575-80 Ditto; trace pyrite.  
5580-85 Ditto; ditto.  
5585-90 Same.  
5590-95 Ditto; trace chert brown.  
5595-5600 Ditto; trace siltstone gray; trace chert brown.  
5600-05 Shale gray to dark gray; trace quartzitic gray and chert brown; trace pyrite.  
5605-10 Ditto; little chert gray to brown; ditto.



Sample Log  
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5610-15 Shale gray to dark gray; trace little chert gray to brown; trace bentonite white; trace pyrite.  
5615-20 Ditto; trace ditto.  
5620-25 Same.  
5625-30 Ditto; trace ditto; trace sand green glauconitic, silty.  
5630-35 Ditto; trace ditto; trace bentonite light brown; trace pyrite.  
5635-40 Ditto; trace ditto; trace sand gray, coarse, green, glauconitic, silty; trace pyrite.  
5640-45 Same.  
5645-50 Ditto; trace ditto; trace ditto.  
5650-55 Ditto; ditto; slight trace ditto; trace pyrite.  
5655-60 Ditto; slight trace ditto; slight trace sand, white, coarse, silty, very tight; trace pyrite.  
5660-65 Ditto; slight trace sand, white, coarse, silty, very tight; trace pyrite.  
5665-70 Ditto; trace bentonite white; trace pyrite.  
5670-75 Ditto; ditto; ditto.  
5675 Lakota  
5675-80 Ditto; and sand, white, fine to medium, soft, porous; slight pyritic, compact; a slight trace of gas and ether ring fluorescence.  
5680-85 Sand, white, fine to medium, compact, porous, show gas; slight ether ring fluorescence.  
5685  
Circ. 30" Same.  
Circ. 60" Same.  
5685-90 Shale gray, dark gray; brown fissil.  
5690-95 Ditto; ditto; sand, white, fine to medium, subangular, porous, no show.  
5695  
Circ. 30" Ditto; ditto; ditto, part silty.  
Circ. 60" Ditto; ditto; trace ditto.  
5695-5700 Shale gray and dark gray; trace sand, white, fine to medium, subangular, porous, no show.  
5700-05 Ditto.  
5705  
Circ. 30" Ditto; little ditto.  
Circ. 60" Ditto; some ditto.  
5705-10 Ditto; little ditto.  
5710-15 Ditto; sand, white, some brown, fine to medium, subangular, part silty, porous, no show.  
5715-20 Same.  
5720-25 Ditto; some ditto; trace chert brown.  
5725-30 Ditto; trace ditto.  
5730-35 Ditto; little sand, white to gray, very fine, compact, tight, no show.



Sample Log  
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5735-40 Shale gray and dark gray; little sand, white to gray, very fine, silty, tight, no show; trace pyrite.  
5740-45 Ditto; ditto.  
5745-50 Ditto; trace ditto.  
5750-55 Ditto; trace pyrite.  
5755-60 Ditto; trace sand, gray, fine, quartzitic; trace chert brown.  
5760-65 Ditto; sand, white, fine, porous, no show.  
5765-70 Ditto.  
5770-75 Ditto.  
5775-80 Ditto; sand, white, medium to coarse, part silty, part brown, stained, porous, no show; trace pyrite.  
5780-85 Same.  
5785-90 Shale gray to dark gray; little sand, fine to medium, white, porous, no show.  
5790-95 Shale gray to dark gray; trace chert brown; trace pyrite.  
5795-5800 Ditto; little light gray, waxey; trace pyrite.  
5800-05 Ditto; ditto; one piece black mottled brown; trace pyrite; trace sand, white, medium coarse, poorly sorted quartzite.  
5805-10 Ditto; ditto; trace pyrite; trace sand, white, medium coarse, poorly sorted quartzite.  
5810-15 Shale dark gray, some gray waxey; sand, white to gray, fine to coarse, silty, no show.  
5815-20 Same.  
5820-25 Same.  
5825-30 Ditto; sand, white, fine, silty, calcareous.  
5830 Morrison  
5830-34 Shale green, waxey and gray and brown, sandy; bentonite light green.  
5834  
Circ. 30" Same.  
Circ. 60" Same.



CORE DESCRIPTION

Core #1 5324-5342 Recovered 18'.

2'8" Sand gray fine silty tight with thin streaks of black carbonaceous shale.  
 5" Sand gray fine porous no show.  
 4'0" Sand gray fine tight silty hard with thin streaks of black carbonaceous shale.  
 10'2" Sand gray fine porous firm with few streaks of black carbonaceous shale. No show.  
 9" Siltstone gray silty hard laminated with black shale. No show.

CORE ANALYSIS

<u>Sample No.</u>	<u>Permeability Millidarcys</u>	<u>Porosity Percent</u>	<u>Oil</u>	<u>Water</u>
1-5331-32	216	24.0	0.0	71.2
2-5336-37	92	23.9	0.0	72.4



### CORE DESCRIPTION

Core #2 5433-5450 Recovered 12' 2".

1'6"	Siltstone gray hard interbedded with black shale.
6"	Bentonite light gray and yellow soft.
4'0"	Siltstone light gray interbedded with black shale.
2'6"	Siltstone gray hard.
3'8"	Sand gray fine quartzitic hard silty slightly porous with few streaks dark gray shale. No show.

### CORE ANALYSIS

<u>Sample No.</u>	<u>Permeability</u> <u>Millidarcys</u>	<u>Porosity</u> <u>Percent</u>	<u>Oil</u>	<u>Water</u>
5442-43	9.2	14.3	0.0	69.9

### CORE DESCRIPTION

Core #3 5450-62 Recovered 10'.

10' Shale dark gray firm.



### DRILL STEM TESTS

- #1 5317-5324 The tool was open for 20 minutes, then shut in for 15 minutes. It had a very weak blow at the start dying in 4 minutes after 10 minutes the packer was used twice with a short weak blow after each reset. The test recovered 10 feet of mud with a slight rainbow of oil and a slight trace of gas. The flow pressure was 0 pounds per square inch. The shut-in pressure was 775 pounds per square inch. The static pressure was 2800 pounds per square inch.
- #2 5677-5685 The tool was opened for one hour, then shut in for 15 minutes. There was a strong blow decreasing to a fair blow during the test. At the end of 30 minutes there was a change in odor that was not recognized. The test recovered 2200 feet of gas out slightly salty brackish water. The gas would burn and had the same peculiar odor noted during the test, possibly a slight trace of sulphur from water in otherwise odorless gas. The flow pressure increased from 0 to 950 pounds per square inch. The shut-in pressure was 1350 pounds per square inch. The static pressure was 2900 pounds per square inch. Water resistivity 0.63 at 52°.



# DRILLING TIME LOG

Plains - Beltzer #1

Logan County, Colorado

<u>From-To:</u>	<u>Minutes per 5 foot intervals</u>	<u>Remarks</u>
4000-50	15-20-15-15-15-15-15-16-16-15	
4050-4100	15-13-17-35-20-15-15-20-17-15	
4100-50	14-15-14-15-20-15-15-14-17-15	
4150-4200	13-16-15-18-14-15-15-17-16-12	
4200-50	15-13-15-17-18-14-15-17-19-19	
4250-4300	19-20-21-21-21-22-20-20-19-19	
4300-50	16-19-18-17-17-16-17-17-17-16	
4350-4400	24-13-13-13-14-15-15-15-16-18	
4400-50	17-17-17-17-17-15-18-17-16-17	
4450-4500	17-16-20-18-17-23-22-22-33-26	
4500-50	27-18-22-21-24-20-21-23-24-31	
4550-4600	18-15-15-13-14-14-13-13-14-13	
4600-50	15-16-15-14-13-13-13-13-14-17	
4650-4700	21-14-16-15-18-18-18-19-22-21	
4700-50	22-22-22-21-25-24-22-22-20-26	
4750-4800	23-20-18-20-29-20-32-23-22-23	
4800-50	39-40-44-37-38-40-35-43-32-14	
4850-4900	15-16-21-20-20-16-21-26-21-18	
4900-50	19-19-24-22-26-25-26-34-34-29	
4950-5000	28-37-40-31-35-41-37-34-35-31	
5000-50	29-33-27-28-27-28-27-25-22-34	
5050-5100	23-25-25-22-23-23-21-24-28-25	
5100-50	25-28-31-29-31-30-30-26-26-27	
5150-5200	35-45-40-43-43-40-41-35-25-30	
5200-50	29-23-25-21-23-28-21-21-22-19	
5250-70	112-28-21-22	

## Minutes per 1 foot intervals

5270-80	4-5-4-3-4-4-5-5-5-4	
5280-90	4-18-13-18-15-15-15-16-18-15	
5290-5300	9-9-9-9-10-9-9-9-5-5	
5300-10	4-4-5-5-5-5-5-5-5-4	
5310-20	5-5-11-16-17-15-7-2-5-5	
5320-24	5-6-4-5	
5324-34	16-15-15-20-19-22-35-40-29-22	Core #1
5334-42	21-21-16-22-25-15-25-35	Core #1
5342-50	7-7-6-15-10-11-9-6	
5350-60	7-7-7-10-10-10-11-12-11-10	
5360-70	11-11-11-8-10-12-10-10-9-8	
5370-80	10-10-12-10-12-12-11-12-10-9	
5380-90	12-11-13-12-13-11-12-11-10-9	
5390-5400	10-11-10-10-10-10-10-10-10-10	



Drilling Time Log  
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<u>From-To:</u>	<u>Minutes per 1 foot intervals</u>	<u>Remarks</u>
5400-10	10-11-10-10-10-12-15-14-16-14	
5410-20	14-16-15-16-14-14-14-12-15-17	
5420-33	17-14-16-13-15-16-15-8-3-32-42-31-13	
5433-43	13-23-4-7-25-12-14-10-11-17	Core #2
5443-50	37-15-16-15-24-20-20	Core #2
5450-62	55-37-29-38-75-90-74-36-41-37-58-57	Core #3
5462-70	10-10-12-13-11-12-12-11	
5470-80	10-11-15-12-12-15-14-17-13-13	
5480-90	11-19-18-20-20-20-20-18-20-20	
5490-5500	15-20-20-30-27-35-23-24-20-20	
5500-10	31-7-8-8-7-6-7-8-7-10	
5510-20	10-9-10-10-9-10-10-10-10-10	
5520-30	10-11-10-9-9-9-10-9-8-10	
5530-40	10-11-12-11-10-9-9-9-11-11	
5540-50	11-12-11-12-12-12-12-11-11-10	
5550-60	11-12-10-11-11-13-13-11-14-12	
5560-70	15-14-13-15-12-10-10-10-10-10	
5570-80	9-12-11-10-10-12-13-12-11-13	
5580-90	12-10-13-8-11-12-15-15-12-13	
5590-5600	13-12-12-12-13-11-13-12-12-12	
5600-10	15-13-15-10-11-14-9-9-10-9	
5610-20	15-17-14-12-13-11-12-14-16-15	
5620-30	12-13-13-16-16-17-16-14-14-19	
5630-40	15-14-13-12-11-10-10-12-10-10	
5640-50	11-10-10-9-8-11-14-15-17-18	
5650-60	14-13-14-15-15-13-13-17-18-19	
5660-70	21-18-18-18-17-19-17-15-16-15	
5670-80	16-16-15-15-15-10-6-8-11-11	
5680-90	10-8-8-12-16-16-15-5-3-4	
5690-5700	3-3-10-11-10-10-12-14-10-10	
5700-10	8-8-8-9-7-10-10-10-7-10	
5710-20	22-31-22-7-10-6-7-13-13-10	
5720-30	10-7-10-12-14-16-13-10-10-7	
5730-40	10-10-9-5-8-11-10-8-7-9	
5740-50	12-23-26-21-27-26-29-37-11-12	
5750-60	13-8-8-5-4-9-10-11-10-10	
5760-70	11-8-10-10-10-20-50-7-7-7	
5770-80	6-6-6-5-4-4-5-5-5-4	
5780-90	5-6-5-4-6-19-22-47-28-36	
5790-5800	28-36-26-36-63-31-16-21-16-20	
5800-10	16-20-25-29-27-22-27-27-35-39	
5810-20	11-17-13-18-6-5-30-12-4-2	
5820-30	2-1-8-9-13-26-24-24-19-20	
5830-40	40-43-37-36	
5840-50		



BIT RECORD

<u>No.</u>	<u>Make</u>	<u>Size</u>	<u>Type</u>	<u>From</u>	<u>To</u>	<u>Feet</u>	<u>Hours</u> <u>Run</u>	<u>Remarks</u>
1	Reed	13 1/2	Pilot Reamer	0	292	292		Rerun
2	Hughes	8 5/8	OSC-3	292	3074	2782	40	Dull
3	"	"	OSC-3	3074	3866	792	35	"
4	"	"	OSC-3	3866	4550	684	41	"
5	"	"	OSC-3	4550	4985	435	35	"
6	"	"	OSC	4985	5255	270	29	"
7	"	"	OSC	5255	5324	69	10	Dull Pulled to Core
8	"	6 1/2	Core	5324	5342	18	7	Dull
9	"	8 5/8	OWS	5324	5433	109	18	Dull Pulled to Core
10	"	6 1/4	Core	5433	5450	17	5	Dull
11	"	6 1/8	Core	5450	5462	12	11	"
12	"	8 5/8	OWS	5433	5501	68	17	"
13	"	8 5/8	W 7	5501	5673	172	39	"
14	"	"	OSC	5673	5685	12	11	Dull Pulled to Test
15	"	"	OWS	5685	5748	63	14	Dull
16	"	"	OWS	5748	5768	12	4	Green
17	"	"	OWS	5768	5798	30	8	Dull
18	"	"	OWS	5798	5834	36	13	"



MUD RECORD

<u>Date</u>	<u>Depth</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Water Loss</u>	<u>Wall Cake</u>	<u>Tester</u>
10-8-51	570					Magcobar
10-9-51	2869	10	43	9.6	2/32	"
10-11-51	3764	10.3	40	5.2	2/32	"
10-12-51	4155	10.4	40	6.2	2/32	"
10-13-51	4550	10	42	6	2/32	"
10-15-51	5071	10.2	44	6.8	2/32	"
10-18-51		9.9	48	8		"
10-19-51	5450	9.8	55	6.6	2/32	"
10-21-51	5500	9.8	53	6	2/32	"
10-24-51	5740	10	55	7	2/32	"