

VERN HARLEY
#29-1
S $\frac{1}{2}$ NW $\frac{1}{4}$ Section 29
T9N R52W
Logan Co., Colo.
elev. 4053 D.F.



00264328

RECEIVED
APR 28 1981
COLO. OIL & GAS CONS. COMM.

Samples start 60' in Carlisle shale

- 4180' Black fissile shale w/pyrite w/abnd
- 4190' Wh. Nio. chalk
- 4220' As above, inc. calcareous
- 4240' Black fissile shale, slightly silty
- 4270' As above
- 4310' Inc. amt. dense brown limestone
- 4338' Greenhorn -285
- As above
- 4370' As above w/inoc. prisms
- 4430' Inc. amt. dense brown limestone
- 4440' W/stain, inc. amt. bentonite
- 4460' Black fissile shale
- 4490' Inc. amt. white bentonite
- 4500' Black fissile shale
- 4520' As above w/occ.
- 4530' Very thin bentonite streaks w/inoc. prisms
- 4540' As above
- 4550' Shale becoming inc. silty
- 4560' Black fissile shale
- 4570' W/thin bentonite streaks
- 4580' "D" Sand -527

Sandstone, white, very fine grained, very slight permeability and porosity, slight to fair stain streaked with good fluorescence

- 4590' Good to fair cut
- 4600' Sandstone as above
Black fissile silty shale
- 4610' Shale as above
Sandstone, very fine grained, very slight permeability & porosity, slight stain, dull fluor., very poor cut
- 4620' Sandstone, white, very fine grained, no visible stain, poor cut
Black fissile shale
- 4630' As above
- 4640' Inbedded with thin lenses of bentonite
- 4650' Black & gray-green fissile shale inbedded with brown shale
- 4660' Increasingly silty
Black fissile shale
- 4670' Inbedded gray & black fissile shale
As above
- 4680' Increasingly sandy & silty
- 4688' "J" Sand -635
- 4690' Inbedded with lenses of bentonite
- 4700' Sandstone, very fine grained, slight permeability & porosity, good fluorescence & cut
Increasing amount black shale
- 4710' Increasing amount black fissile shale with chert
- 4720' Dark gray silty shale
- 4730' As above
Sandstone, very fine grained, slight visible stain, good fluorescence, fair - good cut
- 4740' Inbedded very fine grained sandstone & black fissile shale
Increasing amount very fine grained sandstone, slight permeability & porosity, slight stain
- 4750' Sandstone, very fine grained, fair permeability & porosity, slight stain, dull fluorescence, inbedded with white bentonite
- 4760' As above, increasingly silty & shaley
- 4771' T.D.

VERN HARLEY
#29-1
S $\frac{1}{2}$ NW $\frac{1}{4}$ Section 29
T9N-R52W
Logan County, Colorado
Circulation and D.S.T. Record

DST #2
4590-4624

Op 15", SI 30", Op 45", SI 45", rec. 2306 MCF
IH 2342, FH 2327, IF 726, FF 809, SI 1204

Circ. @ 4620
1 hr.

15" circ. spls., ss., v.f.g., v. sli. p.&p.,
v. sli. vis. stn., dull brn. fluor., f. cut
in 0-45" spls. cut 45"-60" spls. v. sli. show

Circ. @ 4702

Sdy. sltst., v.f.g., v. sli. p.&p., sli. vis.
stn. grading to v. f.g. ss., inc. amt. stn.,
f.-g. fluor., good cut

DST #1
4700-4742

Op 15", SI 60", Op 120", rec. 39 MCF +374' mud
& mdy. wtr., IH 2360, IF 124, FF 141

Circ. @ 4740
1 hr.

Ss., v.f.g., sli.-f. p.&p., sli. vis. stn.,
f.-g. fluor & cut

Circ. @ 4760
1 hr.

Ss., v.f.g., sli.-f. p.&p., sli. vis. stn.,
dull fluor., p. slow cut

Exeter Rig #13
Pusher - Dave Brown

VERN HARLEY
#29-1
S $\frac{1}{4}$ NW $\frac{1}{4}$ Section 29
T9N-R52W
Logan Co. Colo.

RECEIVED

APR 28 1981

COLO. OIL & GAS CONS. COMM.

Surface - 3 joints 8 5/8 - 109'
Spud 11-26-80

Mud

4121' Vis. 36, Wt. 9.4
4771' T.D.

Fit Record

	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Depth out</u>	<u>Feet</u>	<u>Hours</u>
1	7 7/8	Smith	DS-J	1929	1809	9 3/4
2	7 7/8		DT-J	4790	2861	46 1/2

Electric Log Tops

<u>Fm.</u>	<u>Depth</u>	<u>Datum</u>
Niobrara	3996	+57
Carlisle	4136	-83
Greenhorn	4350	-297
"D" sand	4588	-535
"J" sand	4696	-643

SWR	
TRP	
MM	
JAM	✓
LJD	
RLS	
COM	