SOFTROCK GEOLOGICAL SERVICES, INC.

591 County Rd. 233 Durango, CO 81301

(970) 247- 8868 fax 247- 5108

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name:	Argenta 34-10 32-2A		
Location:	NWSE Sec. 32 T34N R10W La Platta Co., NM		
License Number:	API #:067-09383-00	Region:	Ignacio Blanco
Spud Date:	Drill out of 7" csg. on 10/18/07	Drilling Completed:	October 19, 2007
Surface Coordinates:	1536' FSL Lat. 37.144478 1971' FEL Long. -107.954126		
Bottom Hole Coordinates:	812' FSL 867' FEL		
Ground Elevation (ft):	6807'	K.B. Elevation (ft):	6819'
Logged Interval (ft):	3247' MD To: TD	Total Depth (ft):	3612' MD 3230' TVD
Formation:	Upper Cretaceous Fruitland - Pictured Cliffs		
Type of Drilling Fluid:	Compressed Air and Mist		

OPERATOR

Company: ConocoPhillips
Address: P.O. Box 4289
Farmington, NM 87499-4289

GEOLOGIST

Name: Andrew Charnock, JP Bauer
Company: Softrock Geological Services, Inc.
Address: 591 County Rd. 233
Durango, CO 81301
(970) 247-8868 fax (970) 247-5108

Contractors

Aztec Rig #731
CP Co. Rep. : Mr. Teddy Rodriguez
AFE# WAN.CBM.7124
Network #:10189429
PO #: STUARTK
Activity Code: K200 (Mudlogging)

Instrument

i5 FID Chromatograph

Hole Info.:

Hole Data: 12 1/4" to sfc. TD
8 ¾" to 3247' MD
6 ¼" to 3612' MD

Casing Data: 9 5/8" to 225' 32.3# H-40 ST+C
7" to 3236' MD 20# J-55 ST+C
5 ½" to TD 15.5# K-55 ST+C + tubing

ROCK TYPES

LITHOLOGY
- Bentonite
- Chert band
- Coal
- Conglom.
- Limestone
- Sandstone
- Shale
- Siltstone
- Clay
- Fracture
- Marl
- Carb shale
- Mudstone
- Cement

STRINGER
- Argillaceous
- Bentonite
- Coal lam.
- Lime
- Sand lens
- Clay lens
- Carb shale
- Coal streak

ACCESSORIES

FOSSIL
- Shell hash
- Crinoid
- Fish
- Fossil
- Oolite
- Plant
- Inoceramus

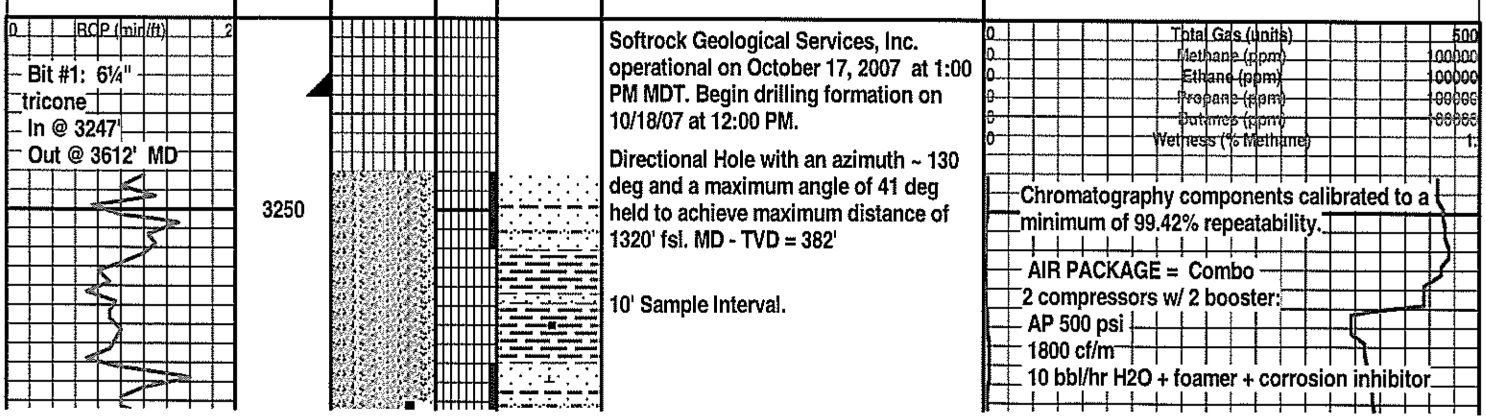
MINERAL
- Argillaceous
- Bentonite
- Calcareous
- Carby
- Dark chert
- Light chert
- Dolomite
- Feldspar
- Ferromag
- Glauconite
- Heavy min.
- Kaolinite
- Marly
- Mica
- Min. xl
- Pyrite
- Sandy
- Silty
- Silica/qtz
- Water
- Fracfill
- Smkyqtz
- Chlorite
- Jasper
- Amber
- Inter. clay

OTHER SYMBOLS

EVENTS
- Casing shoe
- Midnight
- Bit trip
- Fracture
- Survey
- Comp. samp.
- Dz canister
- Gas show
- Td
- Tite conn
- Pitot
- Sea level
- Fm. member
- Fm. tops
- Interp. show

STAINING
- Even
- Spotted
- Rare
- Dead oil

ROP	Depth	% Lithology	Porosity	Lithology	Geological Descriptions	Gas Curves
ROP (min/ft)						Total Gas (units) Methane (ppm) Ethane (ppm) Propane (ppm) Butanes (ppm) Wetness (% Methane)



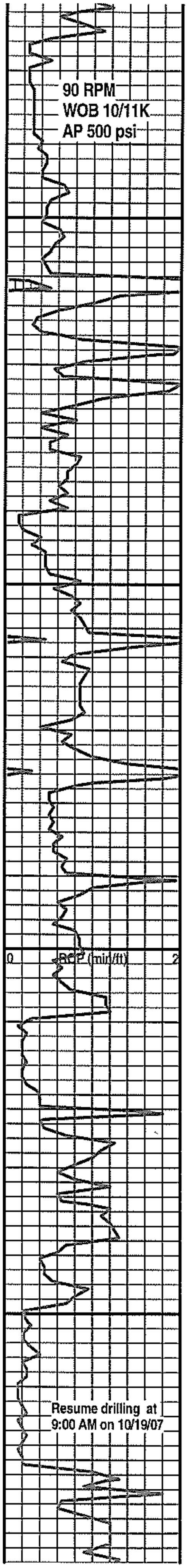
Softrock Geological Services, Inc. operational on October 17, 2007 at 1:00 PM MDT. Begin drilling formation on 10/18/07 at 12:00 PM.

Directional Hole with an azimuth ~ 130 deg and a maximum angle of 41 deg held to achieve maximum distance of 1320' fsl. MD - TVD = 382'

10' Sample Interval.

Chromatography components calibrated to a minimum of 99.42% repeatability.

AIR PACKAGE = Combo
2 compressors w/ 2 booster:
AP 500 psi
1800 cf/m
10 bbl/hr H2O + foamer + corrosion inhibitor

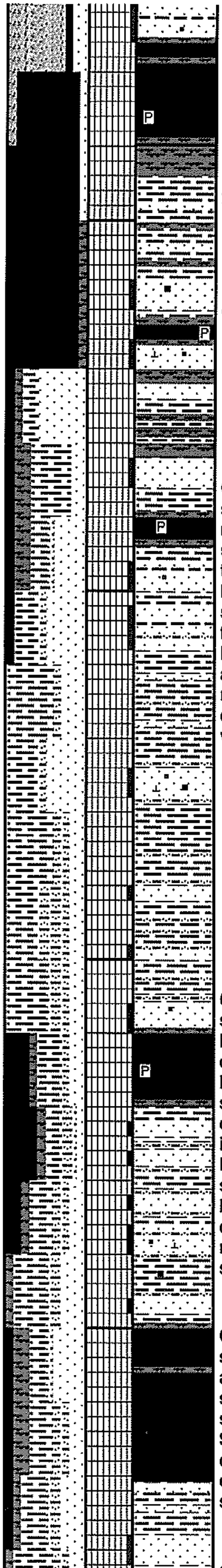


3300

3350

3400

3450



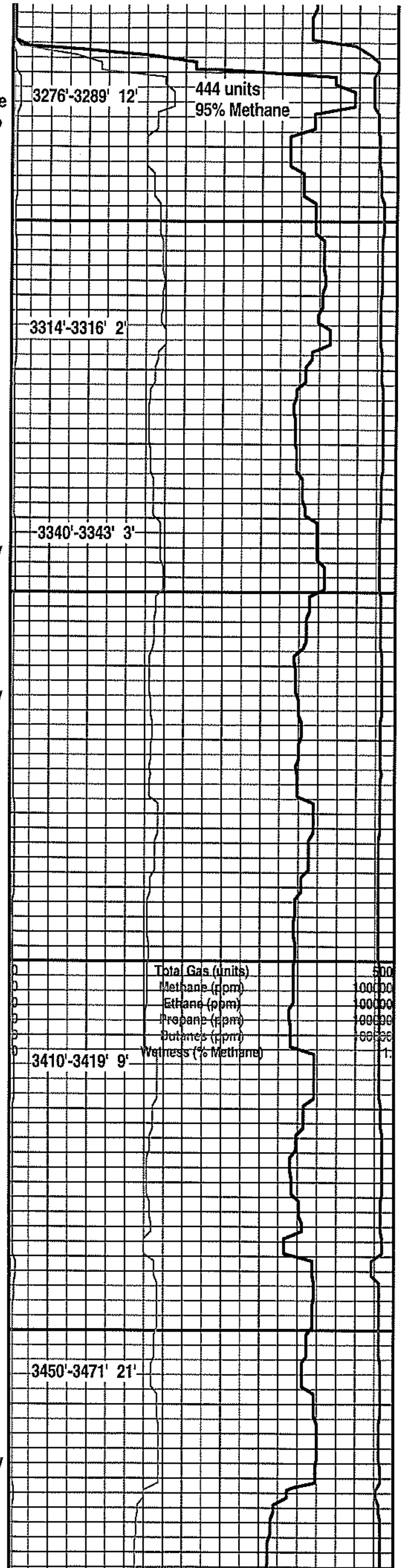
COALS: Upper portion is mostly semi-bright satiny intermediate coal with glassy bands and faces 85%. Some dull low grade coal 15%. Sub-blocky to some blocky with moderate cleating. Cleat faces often intersect at oblique junctures. Slightly brittle to moderately firm, grading to very firm. Friable along cleat surfaces. Common glassy conchoidal fracture. Some micro-banded pyrite. Good, sustained gas show. Grading to a dull low grade coal.

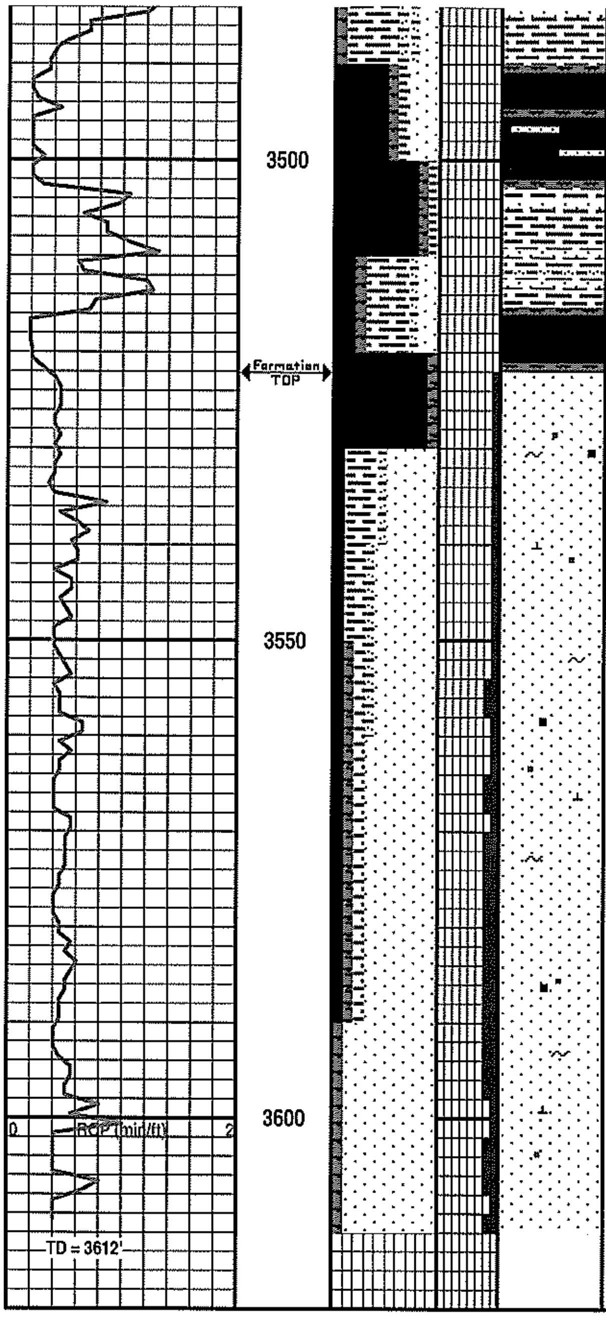
COAL STRINGER: 65% Dull earthy sub-platy coal that is speckled with micro-pyrite. 35% Semi-bright sub-satiny intermediate coal with satiny to sub-glassy faces and micro-bands. Intermediate coal is sub-platy to sub-blocky. Sub-fair cleating with cleat faces occasionally intersecting to form blocky edges. Some cuttings have abundant pyrite specks with pyrite micro-laminations. Common sub-glassy conchoidal fracture. Moderately firm to very firm.

COAL: Mostly semi-bright sub-satiny sub-intermediate coal with sub-glassy bands and faces 65%. Some dull earthy coal with some sub-satiny faces 35%. Intermediate coal is sub-platy to sub-blocky to irregular. Sub-moderate cleating with cleat planes occasionally intersecting to form blocky edges. Blocky edges are sub-rounded, not sharp and defined. Some micro-pyrite laminations. Some sub-glassy conchoidal fracture. Slightly to moderately firm, but friable along cleat surfaces when they exist.

COAL: Mostly semi-bright sub-intermediate coal with satiny faces and bands 75%. Some dull earthy sub-platy coal 25%. Moderately firm, sub-platy to sub-blocky to irregular. Sub-moderate cleating with cleat faces occasionally intersecting to form blocky edges. Some banded pyrite. Some satiny to sub-glassy concoidal fracture.

COAL: 85% Semi-bright satiny to silvery





intermediate coal with abundant glassy bands and faces. 15% dull earthy flat coal. Sub-blocky to some blocky and shardy. Slightly firm, but friable along cleat planes. Moderate cleating with cleat faces often intersecting at oblique junctures. Common glassy concordal fracture. Abundant micro quartz bands and inclusions.

COAL: Basil: Mostly semi-bright satiny intermediate coal with glassy bands and faces 80%. Some dull earthy sub-platy coal 20%. Sub-blocky to shardy and irregular. Moderately firm to very firm. Sometimes slightly brittle and slightly friable along cleat surfaces. Cleating is moderate to sub-moderate with cleat surfaces often intersecting to form oblique junctures. Common glassy concordal fracture.

Pictured Cliffs Formation @ 3522' MD 3140' TVD (+3679' subsea elevation)

SANDSTONE: Tan to mostly white to translucent to some clear. Fine grained, sub-rounded to mostly sub-angular, moderately well sorted. Moderately firm and well cemented with calcite and calcareous clay, some silica. Common pale green glauconite and some carbonaceous material. Poor porosity due to clay plugging. No show.

Total Depth of 3612' MD 3230' TVD reached at 11:15 AM MDT on October 19, 2007.