Cynosure Energy, LLC
1401 17th Street, Suite 850
Denver, CO 80202

Penney #1-14-15-20
125' FSL & 555' FEL
Sec. 14-T15S-R20W
Ellis County, Kansas
KB = 2052'

Super Chief Imperial
Penny # 1-14-15-20
125' FSL 555' FEL Sec 14-T15S-R20W
Ellis County, Kansas
Well Name
Surface Location
Bottom Location
API #
License Number
Spud Date
Region
Drilling Method:
Drilling Fluids Type:
Total Depth
Elevation
K.B. Elevation
G.L. Elevation
Logged Interval
Type of Drilling Rig
Drilling Time Type
Contractor
Rig #
Spud Date
Total Depth
Date
Time
Rig Release
Time
Contractor
Chief Petroleum Geologist
Mud Type
Chemist
Phone No.
Mud Engineer
Phone No.
Charlie Sturdevant
Chemical Geologist
Mud Type
Chemist
Phone No.
Mud Engineer
Phone No.
Charlie Sturdevant
Logged Intervals
Drilling Time Type
Samples Collected
Samples Shipped
Drilling Mud Type
Mud Company
Mud Engineer
Mud Wt.
Vis.
Chlorides
Sand
Bit #
Size
Hole Size
Type
Jets
Total Footage
Hours
Depth Out
Depth In
Drilling Time
Deviation Survey
Mud Pump
Liner Size
Stroke
Pump Pressure
Jet Velocity
Circ. Time
Circ. Pressure
Max. Pressure
Max. Flow
Pump Output
Pump Factor
Mud Company
Mud Engineer
Mud Wt.
Vis.
Chlorides
Sand
Bit #
Size
Hole Size
Type
Jets
Total Footage
Hours
Depth Out
Depth In
Drilling Time
Deviation Survey
Mud Pump
Liner Size
Stroke
Pump Pressure
Jet Velocity
Circ. Time
Circ. Pressure
Max. Pressure
Max. Flow
Pump Output
Pump Factor
LOGGED BY
Charlie Sturdevant Consulting
Company
Address
Phone No.
Geologist
Charlie Sturdevant
NOTES
The Cynosure Penney #1-14-15-20 well was drilled on a 640 acre unit in Sec 14-T15S-R20W and Sec 15-T15S-R20W, located in the Pfeifer Field, Ellis County, Kansas. The well was drilled to a total depth of 3,800' to test the Lansing-Kansas City, Arbuckle and Granite Wash formations. Log-Tech, LLC of Hays, Kansas, operated the Mud Logging Unit from 3,000' to RTD. Drilling fluids were provided by Chemical Solutions, LLC of Hays, Kansas. Drilling was performed by Super Chief Imperial Rig #1. Surface casing was set at 256' and cemented by the ODP.
Drilling was done with fresh water gel mud, starch, and soy products. It was determined by all parties involved that the well should be cored, tested and/or logged.
The samples were spun and wet tested for shows by the Kansas Geological Survey and sample trays, located at the Kansas Geological Survey in Wichita, Kansas.
Respectfully submitted,
Charlie Sturdevant
Chief Petroleum Geologist
Well Comparison Sheet
CHARLIE STURDEVANT CONSULTING
COMPARISON WELL DATA
Operator
Lease Name
Location
API #
Spud Date
Comp. Date
KB Elev.
Log Depth
Formation
Lansing A
Lansing B
Lansing C
Lansing D
Lansing E
Lansing F
Lansing G
Lansing H
Lansing I
Lansing J
Lansing K
Stark Shale
BKC
Marmaton
Pawnee
Fort Scott
Cherokee Shale
Johnson
Mississippi
Kinderhook
Viola
Simpson Shale
Simpson Sand
Arbuckle
RTD
LTD
Daily Drilling Report
CHARLIE STURDEVANT CONSULTING
Company: Cynosure Energy, LLC
Contact: Jim Fleming
Address: 1401 17th Street, Suite 850
Denver, CO 80202
Lease: Penney
Well #: 1-14-15-20
Location: 125' FSL 555' FEL
Sec. 14-T15S-R20W
Ellis County, Kansas
API #:
Spud Date: 10-24-2011
Comp. Date: 10-31-2011
Elevation: 2052' KB
Rig #: Super Chief Imperial Rig #1
Phone: (785) 625-5688
Email: charlie@sturdevantcons.com
Mud Co.: Chemical Solutions, Inc.
Phone: (785) 625-2083
Mud Type: Fresh Water Gel
Bit Record
Bit # Size In Out Footage Hours
Mud Properties
Date Time Wt. Vis. W/L Cake Pv Yp Gels Cl Sand %LCM
Daily Cost: $ 0
Cum. Cost: $ 0
Drilling Summary
Time Depth Activity
Drill Stem Test
DST # Interval Time Recovery
Casing Record
Surface: 8-5/8" @ 256' w/ 175 sks
Production:
Comments
Geologist: Charlie Sturdevant
Cell: (785) 625-5688
SURFACE CO-ORDINATES
Block Type: Standard
Block Name: Standard
Lat/Long: Lat/Long
Datum: NAD 27
Local Origin: Well Centre
Vertical Reference: KB
Ground Level: 0.00
Local Ref: Well Centre
Scale: 1.000000
Convergence: -0.00000
Total Corr: -0.00000
Grid East: 0.00
Grid North: 0.00
Vertical Section Azimuth: 0.000
Vertical Section Origin: 0.00, 0.00
TVD Reference: KB
CONTRACTOR
Contractor: Super Chief Imperial
Rig Type: Mud Rotary
Rig Number: 1
Spud Date: 10-24-2011
Total Depth: 3,800'
Date: 10-31-2011
Time: 12:00
Rig Release: 10-31-2011
Time: 12:00
ELEVATIONS
K.B. Elevation: 2052.00
G.L. Elevation: 2042.00
Ground Elevation: 2044.00
MUD TYPES
Gel Chem
Gypsum
Water
Drilling Foam
Polymer
Oil
Air
Fresh Water
Brine
Clear Water
Mud
Air Mist
ACCESSORIES
MINERAL
Anhydrite
Salt
Gypsum
Coal
Limestone
Dolomite
Sandstone
Shale
Porous
Dead Oil Stain
Live Oil Stain
Fossil
Oolites
Pellets
Cherty
Argillaceous
Glauconitic
Pyritic
Calcareous
Micaceous
Fossiliferous
Vuggy
Fractured
Intercrystalline
Intergranular
Fair Cut
Good Cut
Fair Fluor
Good Fluor
Trace Free Oil
Free Oil
Free Water
SHOW TYPES
Oil Show
Gas Show
Water Show
Dead Oil Show
OTHER SYMBOLS
Drilling Minutes / 6 Mesh Washed Sample
Gas Units
Lithology
Geological Descriptions
Cynosure Energy Penney # 1-14-15-20
125' FSL & 555' FEL Sec 14-T15S-R20W
Ellis County, Kansas
KB = 2052'
Arbuckle Nelson - Long-Hill
Arbuckle (2007 - 2400)
Dark brown oil on surface at 2100 feet. 4/4 DST. 2
Dark brown oil on surface at 2100 feet. 4/4 DST. 2
1st Samples taken at 2000'
Dark brown oil on surface at 2100 feet. 4/4 DST. 2
Carbon (2400 - 2495)
Carbon (2400 - 2495) - Black to medium brown fresh fragments, trace dark brown oil stain, no show, fair odor, fair cut fluor, no free oil, no free water.
Carbon (2400 - 2495) - Black to medium brown fresh fragments, trace dark brown oil stain, no show, fair odor, fair cut fluor, no free oil, no free water.
Chert (2400 - 2495) - Tan, trace translucent chert fragments, no show, no odor, no cut fluor, no free oil, no free water.
Chert (2400 - 2495) - Tan, trace translucent chert fragments, no show, no odor, no cut fluor, no free oil, no free water.
Chert (2400 - 2495) - Tan, trace translucent chert fragments, no show, no odor, no cut fluor, no free oil, no free water.
Trace