

Chesapeake Operating Inc.
Boyce 15-3
Lea County, New Mexico.

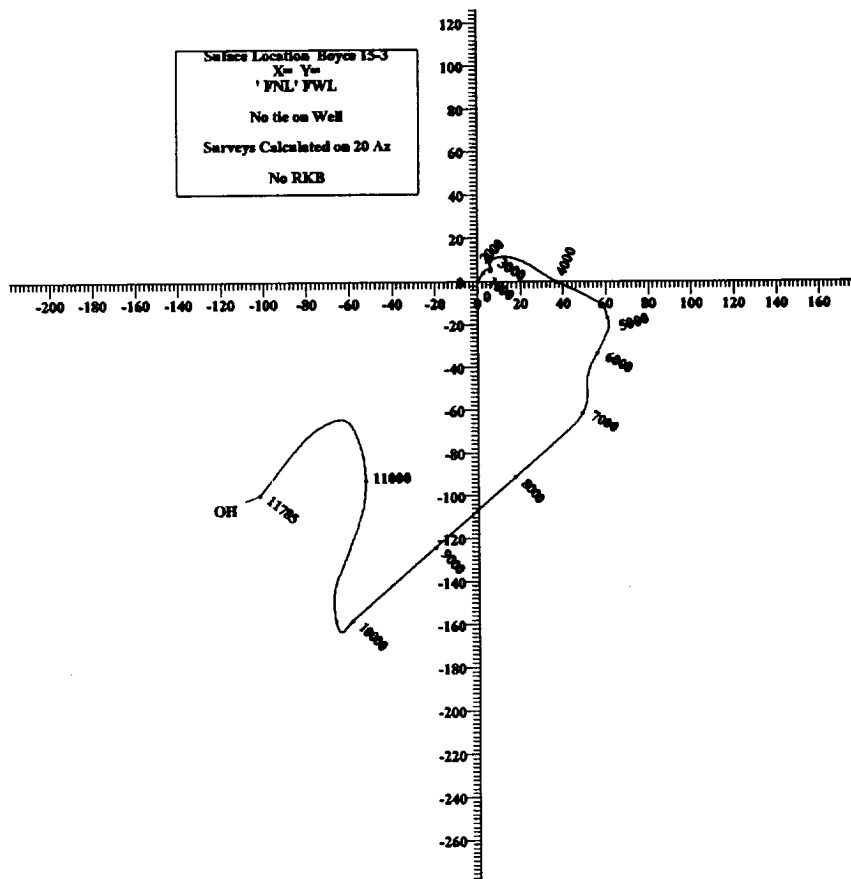
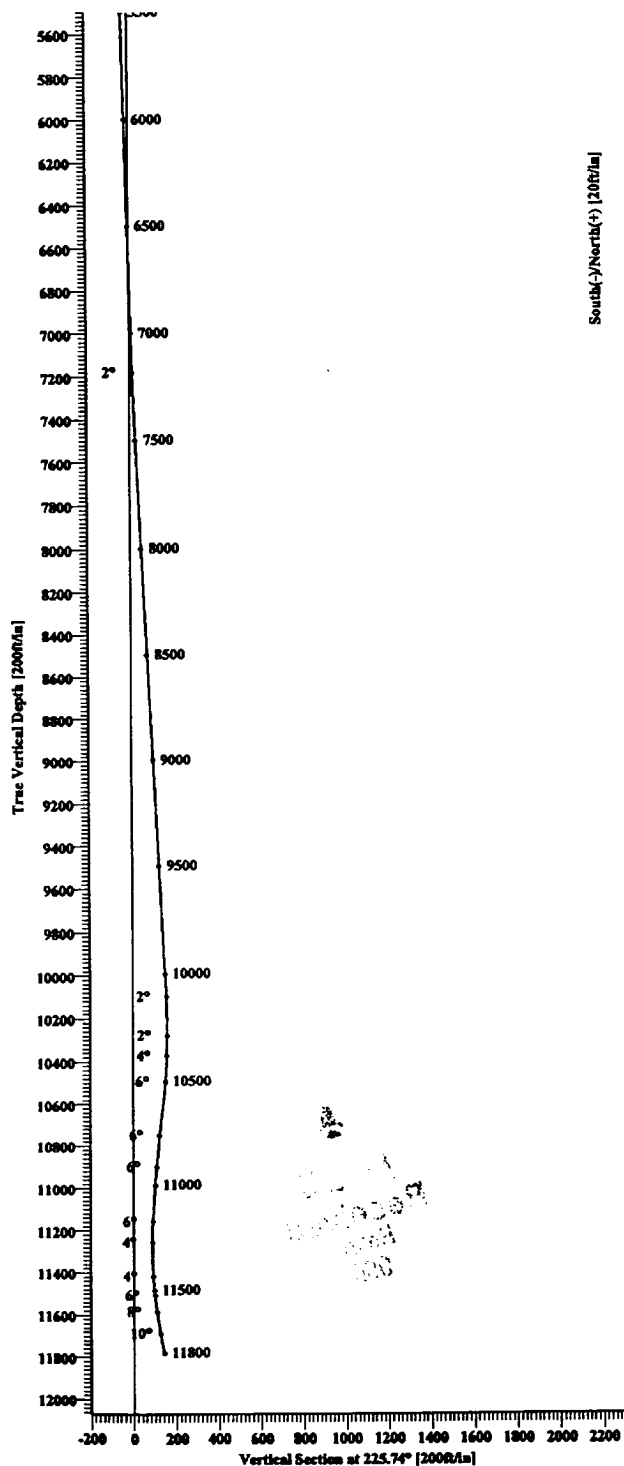


All Angles Relative
 To Grid North
 Grid North: 0.00
 True North: -0.49
 Magnetic North: 8.37



Ryan Energy Technologies USA Inc.

Surface Location: Boyce 15-3
 X= Y=
 'FNL' FWL
 No tie on Well
 Surveys Calculated on 20 Az
 No RKB



West(-)/East(+) (20ft/in)

FIELD DETAILS

Lea County
 New Mexico
 USA
 Geodetic System: US State Plane Coordinate System 1927
 Ellipsoid: Clarke - 1866
 Zone: New Mexico, Eastern Zone
 Magnetic Model: Igr2000
 System Datum: Mean Sea Level
 Local North: Grid North

SITE DETAILS

Boyce 15-3
 Lovington, NM
 Site Centre Easting: 774905.00
 Northing: 700570.00
 Water Depth: 0.00
 Positional Uncertainty: 0.00
 Magnetic Declination: 8.85
 Convergence: 0.49

WELLPATH DETAILS

OH
 Original hole
 Vertical Section Origin: Slot - (0.00,0.00)
 Vertical Section Angle: 225.74°
 Rig: Nabors 319
 Depth Reference: SITE 4003.00ft

