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2019 Prospect Inventory in South Texas/Texas Gulf Coast

10 Conventional Study Areas – 3D/2D Seismic and/or Subsurface

33 Individual Prospects - ~4,420 Wells – Reserves: ~76,000,000 Bo and ~370 Bcfg

Thunder Rock Exploration, Inc. is pleased to announce its available Prospects for purchase. Most prospects have 3D seismic and subsurface support. Some are only supported by subsurface mapping due to no 3D seismic ever having been shot over the areas. A few could use 3D seismic to verify key components if available but most un-shot prospects are on the edge of available 3D's. These Prospects are unleased and available for purchase or Joint Venture. Thunder Rock is looking to partner with those companies interested in growing through the drill bit in South Texas/Texas Gulf Coast. Prospect reviews are available at any time. These prospects are subject to prior sale and may be pulled at any time. NDNC required.

Alpha Prospects Study Area – 3 Prospects in South Texas

- 3D seismic and subsurface support for Jackson aged channel oil sand cutting across structural nose with updip Amplitude pinch-out. Multiple 1950's and early 1960's wells with production tests of 1.3 Mmcfg/d – 5.0 Mmcfg/d and 81 Bo/d from Wilcox Mackhank channel sands with Amplitude support cutting across faulted structure.
- 3 Prospect Package - 9 Well Potential.
- Targeted Formations: Jackson Sand and Wilcox Sands (Mackhank Series).
- Trap: Channel sands pinching out across easterly plunging nose (Jackson Oil Sand).
- Channel sand pinching out across faulted structure (Wilcox Mackhank Sand).
- Sand Thickness: ~20' Jackson Oil Sand and ~50' Wilcox Mackhank Gas/Condensate Sand.
- Total Depth: 2,000' (Oil) and 8,800' Gas/Condensate - non-pressured.
- Total Estimated Prospect Reserves: 1,125,000 Bo – 2,500,000 Bo & 30 – 60 Bcfg.

Beta Prospect Study Area – 1 Prospect in Texas Gulf Coast

- Subsurface control for multiple up-thrown fault closures trapping stacked Frio sands on trend with Major Oil Company oil production plugged out in 1977. 150' of stacked non-pressured Frio sands expected and 100' of geo-pressured sands expected. Located on the edge of available 3D's. Directional drilling candidate.
- 36 Well Potential.
- Targeted Formation: Frio.
- Trap: Multiple up-thrown three way fault closures.
- Sand Thickness: ~250'.
- Total Depth: 9,100' non-pressured. 9,500' geo-pressured.
- Total Estimated Prospect Reserves: 8,100,000 Bo & 42.5 Bcfg.

PS Prospects Study Area – 16 Prospects in Texas Gulf Coast

- 3D seismic and subsurface support across Miocene gas field whose production exceeded 800 Bcfg in local area from 19 stratigraphic controlled gas sands. Amplitude support for more isolated sands around flank of old field. Mapping shows lightly tested (1 Well) anticline with Amplitude support pinching out on flank on various intervals and untested on structural high of anticline at various intervals. Oil development potential on one flank of field.
- 16 Prospect Package - 30+ Well Potential.
- Targeted Formation: Miocene.
- Trap: Isolated stratigraphic channel and bar sands separated from the main producing field. Anticlinal development with amplitude support.
- Sand Thickness: ~10' – 30'.
- Total Depth: 2,000' - 6,100' non-pressured.
- Total Estimated Prospect Reserves: 73.53 Bcfg & 3,293,500 Bo.

Epsilon Prospect Study Area – 1 Prospect in South Texas

- Subsurface support for at least 4 stacked Cretaceous Oil and Gas limestone's on rollover anticline. New technology in area really increasing flow rates with flush production rates of 20-30 Bo/d with sustained rates of 15 Bo/d. No 3D seismic ever shot over area.
- 300+Well Potential.
- Targeted Formations: Lit, Anacacho, Austin Chalk, Eagleford Benches and Buda.
- Trap: Roll over anticline.
- Limestone Thickness's: Lit (~20'), Anacacho (~60'), Austin Chalk (~70'), Eagleford Benches (30'), (Buda (~20')).
- Total Depth: 2,000' non-pressured.
- Total Estimated Prospect Reserves: 4,365,400 Bo & 5.98 Bcfg.

Epsilon Extension Prospect Study Area – 1 Prospect in South Texas

- Subsurface support for very large oil and gas productive area in the Cretaceous Limestone's. New technology in area really increasing flow rates with flush production rates of 20-30 Bo/d with sustained rates of 15 Bo/d. No 3D seismic ever shot over area.
- 4,000+ Well Potential.
- Targeted Formations: Lit, Anacacho, Austin Chalk, Eagleford Benches and Buda.
- Trap: North – South trending plunging nose along downthrown side of regional fault.
- Limestone Thickness's: Lit (~20'), Anacacho (~45'), Austin Chalk (~70'), Eagleford Benches (30'), (Buda (~20')).
- Total Depth: 2,000' non-pressured.
- Total Estimated Prospect Reserves: 40,000,000 Bo.

Zeta Prospects Study Area – 3 Prospects in South Texas

- Some 3D seismic and subsurface support for 3 up-thrown fault closures. Down-dip show logs from 1940's and 1950's. 10 square mile 3D shoot needed to fully image fault blocks.
- 20+ Well Potential.
- Uplifted Fault Closures – 3 separate structures possible.
- Sand Thickness: Crockett (~30'), Queen City Upper (~100'), Queen City Lower (~30')
- Total Depth: 6,000' non-pressured.
- Total Estimated Prospect Reserves: 7,056,000 Bo & 8.7 Bcfg

Eta Prospects Study Area – 2 Prospects in South Texas

- 3D seismic and subsurface support for fault wedge/horst block with great down dip show log from 1951. Possible extension of trapping antithetic fault to north extending trap size that needs additional 3D seismic to confirm. Localized strong Amplitude development in Lower Queen City along downthrown side of fault. Behind pipe pay in local area wells.
- 2 Prospect Package - 9 Well Potential.
- Targeted Formations: Yegua, Cook Mountain, Queen City.
- Trap: Fault wedge/Horst block and up-thrown three way fault closure along antithetic fault in Upper Queen City. Stratigraphic sand development on downthrown side of fault in Lower Queen City.
- Sand Thickness's: Yegua (~10'), Cook Mountain (~25'), Queen City Upper (~100') and Lower (~30').
- Total Depth: 5,500' non-pressured.
- Total Estimated Prospect Reserves: 3,268,800 Bo & 5.4 Bcfg.

Theta Prospect Study Area – 1 Prospect in South Texas

- 3D seismic and subsurface support for deeper sand trapped in old plugged out oil field revealed by modern sidewall core analysis and production (>100 Bo/d) in local area on up-thrown fault closure. Untested up-thrown three way fault closure on antithetic fault high structurally to field pays. Behind pipe pay in local area wells.
- 6 Well Potential.
- Target Formations: Yegua, Cook Mountain, Queen City.
- Trap: Up-thrown three way fault closure.
- Sand Thickness's: Yegua (~10'), Cook Mountain (~25'), Queen City (~100').
- Total Depth: 5,000' non-pressured.
- Total Estimated Prospect Reserves: 1,682,750 Bo & 11.25 Bcfg.

Iota Prospect Study Area – 1 Prospect in South Texas

- 3D seismic and subsurface support for multiple areas of up-thrown fault closures on three separate faults with good down-dip show well with behind pipe pay but producing from deeper zone. Behind pipe pay in local area wells.
- 4 Well Potential.
- Target Formations: Yegua, Cook Mountain, Queen City.
- Trap: Up-thrown three way fault closures.
- Sand Thickness's: Yegua (~10'), Cook Mountain (~25'), Queen City (~100').
- Total Depth: 5,000' non-pressured.
- Total Estimated Prospect Reserves: 2.70 Bcfg & 675,000 Bo.

Lambda Prospects Study Area – 4 Prospects in South Texas

- 3D seismic and subsurface support for multiple channel sands pinching out across a structural nose coming off the flank of a large faulted anticline with stacked Frio and Vicksburg oil and gas sands. Lower Queen City/Reklaw faulted anticline (Turtle Structure) with Class III AVO anomaly.
- 4 Prospect Package - 17 Well Potential.
- Targeted Formations: Vicksburg, Frio and Lower Queen City/Reklaw.
- Trap: Channel sands pinching out across structural nose. Faulted anticline deeper prospect.

- Sand Thickness's: Vicksburg (~20') and Frio (~20'). Lower Queen City/Reklaw (~50').
- Total Depth: 6,400' non-pressured. 12,000' geo-pressured.
- Total Estimated Prospect Reserves: 158.78 Bcfg & 5,171,000 Bo (Could be much oilier).

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