

Hycarbex Inc.

Exploratory Well: Yasin Well # 1

Yasin Structure: Technical Profile

Yasin Structure – situated some 24 km northwest of Haseeb Gas Discovery Well # 1, is a four way dip closure with faulting parallel to the structural strike which is a result of strike slip movement in the area.

The structure indicates potential for two reservoirs; Sui Main Limestone (SML) with a closure of 23.4 square kilometer and vertical relief of 40 msec and Ranikot/Pab Sandstone with a closure of 21.49 square kilometer and vertical relief of 30 msec, which is at deeper horizon.

While presence of faults on one hand offers high potential for discovering hydrocarbon deposits, it also poses considerable challenge to accurately place the well on the surface. Therefore three possible well locations were scrutinized vis-à-vis drainage area and position with respect to faults.

On the basis of scrutiny, the best well location is at seismic line 2005-Y-19 Shot Point # 375. The location is away from the North-West trending faults and is close to crested location of the structure. At this well location depth of SML is 1111 meters from Seismic Reference Datum.

Yasin Well location tie has been taken from Haseeb Well # 1 (which is a gas discovery) by preparing the synthetic seismogram and matching it with seismic line 2004-Y-06. Character correlation of synthetic seismogram with the seismic line is good to excellent. Using the available seismic grid, control was shifted to Yasin Structure and verified pick looping the seismic lines. The synthesis was done for SML and Ranikot/Pab out of Haseeb structure.

Mistie analysis was carried with a threshold of 5 msec (which is negligible as compared with structural relief of 40 msec) and all seismic lines fairly tied without any adjustment.

Data quality of lines is generally good; however the southern closure is defined on the basis of strike line.

Yasin Well Alternate Locations, Seismic lines and subsurface maps and well prognosis are attached:

1. Yasin Well Location 1C (best location): Seismic Line 2005-Y19, Shot Point # 375
2. Yasin Well Locations 1A and 1B: Seismic Line 977-J-3A, SP # 1006 and SP # 989, respectively
3. Seismic Line 2005-Y20
4. Seismic Line 2000-J06
5. Synthesis: Haseeb Well # 1
6. Yasin Structure – Top Sui Main Limestone: Depth Structure Map
7. Yasin Structure - Top Sui Main Limestone: TWT Structure Map
8. Yasin Structure - Top Ranikot Sandstone: Depth Structure Map
9. Yasin Structure – Top Ranikot Sandstone: TWT Structure Map
10. Well Prognosis – Yasin Well # 1